## NATIONAL TRANSPORTATION SAFETY BOARD

IN RE:

THE EL FARO INCIDENT OFF THE: NTSB Accident No.

COAST OF THE BAHAMAS ON : DCA16MM001

OCTOBER 1, 2015

INTERVIEW OF: OS2

Tuesday,

October 13, 2015

USCG Seventh District Command Center

Miami, Florida

BEFORE:

JON FURUKAWA, NTSB DENNIS BRYSON, ABS

PATTY FINSTERBUSCH, TOTE Services

PAUL WEBB, U.S. Coast Guard

PRESENT ON BEHALF OF THE INTERVIEWEE:

U.S. Coast Guard JAG Corps

This transcript was produced from audio provided by the National Transportation Safety Board.

## TABLE OF CORRECTIONS TO TRANSCRIPT OF INTERVIEW FOR

_			
	7	TAKEN ON	
our	13	2015	

PAGE NUMBER	LINE NUMBER	CURRENT WORDING	CORRECTED WORDING	
17	12/13	AUTOMATED MUTUAL VESSEL ASSISTANCE	AUTOMATED MUTINAL VESSEL EMERGENCY REPONSE	AMUE
17	14	50205	SOLAS (SAFETY OF LEFE AT SEA)	
19	q	A LEE	A LEE (LEEWAY NAUTICAL TERM)	
25	9	PROPER SECTOR	PROPER RCC (RESCUE COOPJENATION CENTER	)
27	17	SARSAL	SARSAT (SEARCH & RESCUE SATALETE)	
44	10	MSL	MISLE (MARATTIME INFO 545TEM FOR LAW EUTORGEMENT	)
SEVERAL	SEVERAL	MSL	SAME AS ABOVE	
77	4	STATEMENT TAKEN IN MIAMEPL	IT READS JACKSONVILLE, FL,	

If, to the best of your knowledge, no corrections are needed kindly circle the statement "no corrections needed" and initial in the space provided.

NO CORI	RECTIONS NEED.	
		Initials

Printed Name of Person providing the above information

Signature of Person providing the above information

Nov 12 2015
Date

1	P-R-O-C-E-E-D-I-N-G-S
2	(11:52 a.m.)
3	MR. FURUKAWA: It is October 13, 2015, a
4	Tuesday. It is 1152. We are at the U.S. Coast Guard
5	District 7 Command Center interviewing Operations
6	Specialist Second Class
7	This is John Furukawa from the NTSB and
8	Petty Officer do you know that you are being,
9	this interview is being taped with your consent?
10	MR. Yes.
11	MR. FURUKAWA: Okay. Why don't we go around
12	the room and introduce ourselves and who we represent
13	for the transcriber. It's John Furukawa, NTSB, and I
14	am the Chairman of the Survival Factors Group.
15	MS. FINSTERBUSCH: Patricia Finsterbusch,
16	TOTE Services, member of the Survival Group.
17	MR. BRYSON: Dennis Bryson, American Bureau
18	of Shipping, member of the Survival Group.
19	MR. WEBB: Paul Webb, U.S. Coast Guard D-17,
20	Survival Group.
21	MR. Commander Coast
22	Guard JAG, representative of the witness.
23	MR. FURUKAWA: Okay. And I've already got
24	your name down here, so, Petty Officer why
25	don't you, your name, your job title, and Yes, name

1	and job title to start off.
2	MR. Sure. My name is
3	and my job title for this case is Operations
4	Unit Controller or OU for District 7.
5	MR. FURUKAWA: Okay. And, let's see, is it
6	okay I call you
7	MR. That's fine.
8	MR. FURUKAWA: Okay, why don't you
9	tell me your background, you know, how old you are, how
10	long you've been in the Coast Guard, you know, your
11	experience with the Coast Guard.
12	MR. Okay. I am 35 years old. I
13	have been in the Coast Guard for about 12 years. I did
14	three years on the Coast Guard Cutter Seneca and I
15	spent four years at Coast Guard Sector Jacksonville
16	prior to getting here.
17	MR. FURUKAWA: Okay. And what did you do in
18	Jacksonville?
19	MR. I was an SU, or a situation
20	unit controller and a CU, which is a communications
21	unit controller.
22	MR. FURUKAWA: Doing pretty much the same
23	stuff that you are doing here?
24	MR. No. I do operations unit
25	controller here.

1	MR. FURUKAWA: Okay. Was it a SAR kind of a
2	station in Jacksonville or is it
3	MR. It is, but I didn't do search
4	and rescue in Jacksonville.
5	MR. WEBB: And, explain then what a CU
6	is and
7	MR. So communications unit is the
8	radiomen, the person that hails out to people on the
9	radio and keeps communications with them.
10	The situations unit controller I did more of
11	all the other missions that the Coast Guard handles
12	other than search and rescue.
13	I did a lot of marine environmental
14	protection, a lot of pollution, marine investigations,
15	and handled protecting high-value assets that would
16	enter and leave port.
17	MR. FURUKAWA: Okay. Okay, and on the
18	cutter what were duties onboard the ship?
19	MR. So I did basically OS's on
20	ships, do radio and CIC, radar, and that type of thing,
21	without getting into an area that we don't want to get
22	into.
23	MR. FURUKAWA: Okay. And how long have you
24	been here in Miami with this, your present duty
25	assignment?

1	MR. I've been here a little over
2	a year.
3	MR. FURUKAWA: Okay. And does anybody else
4	want to add any, ask any background questions?
5	MR. BRYSON: Is the I'm sorry, Dennis
6	Bryson. Is this the, is Miami the only unit you have
7	been the operation unit controller?
8	MR. Yes.
9	MR. FURUKAWA: Anything else?
10	MR. BRYSON: No, that's all.
11	MR. FURUKAWA: Paul?
12	MR. WEBB: No, not yet.
13	MR. FURUKAWA: Okay. Let's see. Okay, so
14	we've already gone over your position with the Coast
15	Guard as the OU. Do you only stand OU watches here?
16	MR. No.
17	MR. FURUKAWA: You stand
18	MR. I stand OU and SU, situation
19	unit as well.
20	MR. FURUKAWA: Okay. But you're a permanent
21	watchstander, that's your primary duty?
22	MR. Yes.
23	MR. FURUKAWA: Okay. Can you pretty much
24	describe what you are responsible for SU? What are
25	your responsibilities for OU?

1	MR. Direct oversight for all of
2	the sector cases within D-7. So from Charleston all
3	the way down to Key West as well as St. Petersburg.
4	So I provide oversight and policy to the
5	sectors and I review their cases as well as operations
6	unit, mission execution, search and rescue planning for
7	search and rescue cases that D-7 has a SAR mission
8	coordinator of. I am the direct representative of the
9	SAR mission coordinator.
10	MR. FURUKAWA: Okay. And we're, you know,
11	our job here is to listen to you because, you know,
12	you're the, basically the first person in D-7 to get
13	contact with the shipping company, okay, so we'd like
14	to, you know, find out about that.
15	MR. Okay.
16	MR. FURUKAWA: So for October 1st, which was
17	a Friday, let's see, what time did you arrive at work?
18	MR. 0530 is when I usually get
19	here. I can't tell you specific that day, but around
20	0530.
21	MR. FURUKAWA: Okay. And your watch starts
22	at 0600?
23	MR. Six, yes.
24	MR. FURUKAWA: Turn two, okay. And you were
25	scheduled to work from 0600 to 1800, correct, 12-hour

1	watches?
2	MR. Correct.
3	MR. FURUKAWA: And what time did you work
4	till that day?
5	MR. I don't recall when I
6	actually left.
7	MR. FURUKAWA: Okay. But it was after
8	MR. Yes.
9	MR. WEBB: You worked greater than 12 hours?
10	MR. I don't know. I wasn't on
11	watch greater than 12 hours.
12	MR. WEBB: Yes, but I mean
13	(Simultaneous speaking)
14	MR. I may have been in the
15	building and doing pass down and everything else. I
16	honestly don't remember if I was here longer than I
17	mean I definitely was here longer than 12 hours that
18	day because I got here 30 minutes prior.
19	With pass down and watch relief I would've
20	stayed at least 30 minutes after, but I don't remember
21	specifically what time I left the building that day.
22	MR. FURUKAWA: Okay. And you were on watch
23	as the OU, the operations unit?
24	MR. Yes.
25	MR. FURUKAWA: Do you know who relieved you

```
that day?
 1
 2
                                       I'd have to look at the
                        MR.
 3
       schedule, I believe it was Petty Officer
                        MR. WEBB:
 4
 5
                        MR.
                                        Yes,
                                                                    is
       his first name.
 6
 7
                                   The first name was what?
                        MR. WEBB:
 8
                        MR.
 9
                        MR. WEBB:
10
                        MR.
                                        Yes.
11
                        MR. FURUKAWA:
                                       Okay, so pass,
       relieved you, probably on time-ish?
12
13
                        MR.
                                       Yes.
14
                        MR. FURUKAWA:
                                       It's a requirement for his
       1800 watch?
15
16
                                       Correct.
                        MR.
17
                        MR. FURUKAWA:
                                       But then you stated you think
18
       you stayed later to do some admin towards the, about
       the hurricane or --
19
20
                                       Well, no.
                                                   I mean the pass
                        MR.
21
       down starts at 6:00, so I mean I would've stayed until
22
       the conclusion of that pass down, which generally takes
       30 to 45 minutes.
23
24
                        MR. FURUKAWA: Okay. Thirty to 45 minutes
25
       pass down normally?
```

1	MR. Yes.
2	MR. FURUKAWA: So you might not have been
3	done with your watch really until almost 1900, 1830,
4	1845?
5	MR. Well, I'd say that was a fair
6	assessment.
7	MR. FURUKAWA: Okay. And do you think you
8	stayed past the watch or did you go home?
9	MR. No, I went home.
10	MR. FURUKAWA: Okay. Were there any other
11	emergencies that were being handled when you were,
12	around 0700 on the 1st?
13	MR. Define emergencies.
14	MR. FURUKAWA: Well any other SAR acts. As
15	the OU, the operations unit, you are doing SAR stuff,
16	right?
17	MR. Yes. Did I have any other
18	active search and rescue cases happening at the same
19	time?
20	MR. FURUKAWA: Correct.
21	MR. I believe I did. I'd have to
22	go back and, you know, I could find out specifics for
23	you, but, yes.
24	MR. FURUKAWA: Okay. Do you remember how
25	many?

1	MR. No, I don't.
2	MR. FURUKAWA: Okay.
3	MR. It's an easy answer to find
4	out. I could go back and look at the OPSUM and see
5	what was going on, but I don't know right now just off
6	the top of my head.
7	MR. FURUKAWA: Okay. Can you describe the
8	conversation between yourself and Captain John
9	Lawrence, he was the TOTE designated person ashore
10	MR. Yes.
11	MR. FURUKAWA: on October 1st, and like
12	who called who and then what you recollect the
13	conversation was?
14	MR. Sure. When I called him I
15	had gotten an email from my counterparts at LANTAREA
16	describing the situation and I called John Lawrence
17	because I wanted to get in touch with the actual vessel
18	and I wanted to try and find out more information and
19	see what type of information he had.
20	Because the only information that we had at
21	that time and the only person that had actually spoken
22	with the ship was John, and that was what was reported
23	to me.
24	And the situation was that the ship had
25	taken on some water, became disabled, had a 15 degree

They had since secured that and were de-watering 1 2 the vessel and if I recall in the initial report that 3 was made that the ship was in no danger of sinking. I called John and spoke briefly and I wanted 4 5 to know what the company was doing as far as, you know, 6 commercial salvage or commercial assistance because I 7 advised John at that time that the Coast Guard does not 8 have anything that would be capable of towing or 9 providing any type of assistance other than removing 10 the 33 people on board, and that was my initial 11 conversations. 12 I also wanted John to keep calling the ship, 13 as I was going to do, to see if we could any type of 14 communications established. There was still a lot of 15 questions that I wanted answered that we couldn't 16 because nobody got communications with the ship. 17 I believe John was the last one to talk to 18 the El Faro. D-7 never had any direct communications 19 with the boat, with the El Faro. 20 MR. FURUKAWA: Okay. You said that you got 21 an email from LANT? 22 Yes. MR. 23 MR. FURUKAWA: I guess you're going have to 24 get that email, too, but do you remember what, you 25 know, what was communicated in that email?

1	MR. Sure. It was a Inmarsat C
2	distress alert along with a SAS alert and then
3	everything I previously stated, that, you know, that
4	they had taken on water, that they were listing, that
5	they were without power, that they were de-watering.
6	It also provided the ship's position in that
7	email and that's it.
8	MR. Is that email confidential?
9	MR. It is not.
10	MR. Do you have it available?
11	MR. I could go print it out and -
12	-
13	MR. Is that something that you are
14	interested in?
15	MR. FURUKAWA: Yes.
16	MR. All right. All right, why don't
17	we just
18	MR. FURUKAWA: Pause it.
19	MR take five minutes here and
20	you can go get that email.
21	MR. Sure. Yes, let me go print
22	it out.
23	MR. FURUKAWA: Okay, it's 12:07, I'm going
24	to pause the interview with Petty Officer
25	

1	(End of audio file
2	130212 and start of audio
3	file 130212_
4	MR. FURUKAWA: Okay, we're back on tape. It
5	is still Tuesday the 13th of October 2015. It is now
6	12:31 in the afternoon. And I made a mistake, I had
7	stopped the interview, but this is a continuation of
8	the interview with Operations Specialist Second Class
9	
10	We paused the interview so he could go up
11	and print out an email that came from LANTAREA to
12	District 7 concerning the El Faro and do you want to
13	ask questions?
14	MR. WEBB: Yes, this is Paul Webb. The
15	question, you got the Inmarsat C, SASS (phonetic), and
16	do you know if there was an HFDSC alert that was
17	received anywhere?
18	MR. None that were reported to
19	me, no.
20	MR. WEBB: Okay.
21	MR. FURUKAWA: And can you explain the
22	acronyms?
23	MR. WEBB: HFDSC, DSC is digital selective
24	calling. There is different areas, a close to shore,
25	Area 1, is VHF and there's a little button on a VHF

1	radio. Also, do you know if there was any VHF?
2	MR. There were not any VHFDSC
3	either.
4	MR. WEBB: Okay. VHF is close to shore out
5	to about 25 to 50 miles and then there is an, there was
6	an Area 2, which was MF, but the Coast Guard doesn't
7	monitor that anymore.
8	And there is HF, which is Area 3, which goes
9	offshore and that's what the El Faro would've, if they
10	used the HFDSC function that's what they would have
11	used.
12	Can I continue with a couple questions to
13	kind of just backfill
14	MR. FURUKAWA: For the email or
15	MR. WEBB: No, no, no.
16	MR. FURUKAWA: Okay. Let me get finished
17	with these questions here.
18	MR. WEBB: Okay.
19	MR. FURUKAWA: Okay. So did we already ask
20	you if, or what the information was on the email?
21	MR. Yes. Yes, you have.
22	MR. Yes.
23	MR. FURUKAWA: Okay. And, let's see, it
24	looks like Commander (phonetic) gave you a call
25	and you discussed what was on there?

Well he gave me a call and 1 2 said I'm going to be forwarding you an email soon with, you know, with everything. 3 MR. FURUKAWA: Okay. So not much was said 4 5 on the phone, it's all in the email, kind of --6 Yes. 7 Okay. Were you familiar with MR. FURUKAWA: 8 the weather status in the area relative to the ship's 9 position and what was the weather status at the time the call was received? 10 11 Not until I plotted MR. Sure. 12 the position of the ship, obviously, you know, the ship 13 was transiting in the Bahamas, yes, I was aware of the 14 weather in the area. 15 I had forecasted weather, but it wasn't 16 until I talked to the motor vessel Emerald Express did 17 I get a good weather report from somebody that was not 18 on scene, but near scene. 19 I believe they were 50 miles away on the 20 other side of the Acklins and Crooked Islands trying to 21 get away from the storm and they were reporting very 22 severe weather. 23 I don't remember exactly what they were 24 reporting, but it was consistent with hurricane 25 weather.

1	MR. FURUKAWA: Okay. By the other side of
2	the Crooked Islands, it's south?
3	MR. Well, so the Acklins and
4	Crookeds kind of go like this and he was sitting here.
5	MR. FURUKAWA: Okay. And the ship was, the
6	El Faro
7	MR. And the ship was
8	MR. FURUKAWA: To the north of that?
9	MR. Yes.
10	MR. FURUKAWA: Okay. So we have kind of a
11	barrier between (inaudible) storm, the Emerald Express?
12	MR. Yes.
13	MR. FURUKAWA: And what were Did you call
14	out to the Emerald Express or
15	MR. So one of the first things
16	that I did is I tried to pull an AMVER SURPIC which
17	would tell us if there was any AMVER vessels in the
18	area and I had to go out to 150 miles to find any other
19	vessels that were in the area.
20	Since that didn't work I had to go, I went
21	to the CG-1 view, which is our AIS feed which shows a
22	live feed of all the, what should be all the ship
23	tracks out there, and I found the Emerald Express on
24	the other side of the Island on that feed and then
25	contacted them directly via SAT phone.

I also requested that they issue call outs 1 2 to try and establish communications with the vessel and 3 call me back if they were able to establish communications. 4 5 MR. FURUKAWA: Okay. Okay, let's see. Can 6 you explain the acronym AMVER? You said you pulled 7 the, something, AMVER's pic? It was the AMVER SURPIC. 8 MR. WEBB: 9 MR. Yes, the AMVER SURPIC. 10 MR. FURUKAWA: Okay, can you explain the 11 acronyms? 12 MR. Yes. It's the Automated 13 Mutual Vessel Assistance. It's basically to -- There 14 is other solus class ships, other big ships that are 15 able to provide assistance to mariners in far and 16 remote spaces where the Coast Guard might not have any 17 assets available to provide a timely response. 18 So in cases, you know, in foreign countries 19 and, you know, far off from the United States where we 20 become aware of a situation that's one of our, you 21 know, highly sought after and highly used resources 22 because there could be an AMVER ship that's close by 23 willing to provide assistance. 24 MR. FURUKAWA: Okay. And the acronym, you 25 used a CG-1 view?

1	MR. CG-1 view, it's just a, it's
2	an internal Coast Guard program and it has
3	MR. WEBB: That's what they showed you
4	MR. FURUKAWA: Okay.
5	MR. Yes, we showed you that
6	earlier. It's got the commercially available AIS
7	feeds, long-range satellite-based AIS so you can track
8	ships that have transponders.
9	MR. FURUKAWA: Okay.
10	MR. AIS stands for?
11	MR. WEBB: Automated Information System.
12	MR. I think Yes.
13	MR. FURUKAWA: Okay, Automated Information
14	System?
15	MR. Yes.
16	MR. FURUKAWA: Or identification
17	MR. WEBB: Identification System, I'm sorry.
18	MR. I think it's identification.
19	MR. FURUKAWA: Okay.
20	MR. WEBB: I'll get it right.
21	MR. FURUKAWA: And what did the Emerald
22	Express tell you about the weather?
23	MR. I'd have to look at the DVL
24	to say exactly, but I
25	MR. FURUKAWA: What's DVL?

1 MR. The phone conversations. 2 MR. WEBB: Data Voice --3 MR. FURUKAWA: Oh. Data Voice Logbook? 4 MR. Yes. 5 MR. FURUKAWA: Okay. 6 But I believe he was 7 reporting 20 to 30-foot seas and 50 plus knot winds. 8 don't remember specifically what he was saying, and 9 that was, you know, with alee on the island where he 10 was reporting that. 11 I don't remember exactly the weather that he 12 reported, that's why I said consistent with, you know, 13 with hurricane conditions. 14 And then due to all of those factors, 15 receiving the EPIRB alert, receiving the Inmarsat C, 16 receiving the, you know, everything else and still not 17 being able to establish communications or get into 18 contact with the ship we were in the distress phase. 19 Minutes after I got that email I briefed my 20 SAR mission coordinator, who was in the office, on the 21 case and what we had and when we were in the distress 22 phase I started making preparations to see if we could 23 launch any type of asset to go render assistance to the 24 El Faro. 25 The closest asset that would've been

available to respond is the Air Station Clearwater 1 2 Forward Deployed MH-60 out of Great Inaqua. 3 have been the closest asset. I did call them through OPBAT, which is 4 5 Operation Bahamas, Turks, and Caicos, it's a command 6 center, and they work directly for us. It's basically 7 our in-country hub that's manned 24/7 by Coast Guard and they liaise with the government of the Bahamas, in 8 9 this case on our behalf. 10 I had them contact the pilots there and see, 11 based on the weather reports see if it was even 12 remotely possible to send a helicopter out there to 13 effect a rescue and I was told that it was not. 14 Based on the weather conditions they were 15 out of limitations. The Coast Guard cutters that would 16 have been available were hundreds of miles away. 17 MR. FURUKAWA: Okay. 18 MR. Everybody was avoiding this 19 Now when I did plot the position that was storm. 20 received off of that email it was right in the center 21 of the hurricane off of that email. 22 MR. FURUKAWA: The position of the vessel 23 was right in the center? 24 MR. That's why we Correct. couldn't get anything out there immediately and that's 25

1	what hampered the efforts.
2	MR. FURUKAWA: So you're plotting it on your
3	computer screen?
4	MR. Yes.
5	MR. FURUKAWA: Okay. Do you know how big
6	the wall of the hurricane was or how big the eye of the
7	center was at the time?
8	MR. No, I don't.
9	MR. FURUKAWA: Okay. But it was pretty
10	close to the center?
11	MR. Yes.
12	MR. FURUKAWA: Okay.
13	MR. Yes, sir.
14	MR. FURUKAWA: You said the Air Station
15	Clearwater (inaudible) at Great Inagua?
16	MR. Yes, correct.
17	MR. FURUKAWA: And that's OPBAT? What's
18	OPBAT?
19	MR. Operation Bahamas, Turks, and
20	Caicos.
21	MR. FURUKAWA: Operation Bahamas, Turks, and
22	what?
23	MR. Caicos.
24	MR. FURUKAWA: Caicos, okay.
25	MR. WEBB: They have weird names of those

	little islands.
2	MR. Yes, Turks and Caicos is an
3	island that's south of that, it's owned by the British,
4	and then, obviously, the Bahamas.
5	MR. FURUKAWA: Okay. Let's see. Does
6	anybody want to ask a question about this subject?
7	MR. And just for the record the
8	printout of the EPIRB, this is Commander the
9	printout of the EPIRB notification came in. I provided
10	that to Paul Webb for inspection.
11	MR. FURUKAWA: Thank you.
12	MR. Also on that, the EPIRB never
13	provided a position. It was a, it's called a first
14	alert unlocated and you won't see it on there but it
15	closed out due to time 18 hours later. That EPIRB
16	never provided a position.
17	MS. FINSTERBUSCH: This is Patty
18	Finsterbusch from TOTE Services. Is that in fact the
19	El Faro's EPIRB?
20	MR. WEBB: Take a look.
21	MR. It is.
22	MS. FINSTERBUSCH: Okay. Is the one on/off
23	sound that we heard, or that was heard, that
24	MR. WEBB: Yes.
25	MR. I don't know. I can't talk
- 1	

to that.

know.

MR. WEBB: A follow-on question on that, this is Paul Webb. In your experience with an unlocated 406 what would be some of the reasons why you would only get one hit on an EPIRB and then not get the LEO updates to get a position?

Was it something that you guys, I know you discuss in training and everything, so, and this is an opinion, this would be an opinion of yours, what would you think would cause that, because that also goes into your mindset on the case?

MR. Yes. Okay, so you are asking me for my opinion?

MR. WEBB: Yes.

MR. Go ahead and answer it if you

MR. In my opinion it could be caused by any number of things. The master could have activated it and then deactivated it. It could've activated and then sunk and then it wouldn't have ever provided a position either because they have to float on the water.

Most of the solus class ships basically carried -- They can be activated by two ways. They can be manually activated by a switch or they can be water

activated by hydrostatic release. 1 2 Also, in my opinion, you could have gotten 3 some type of interference that caused the beacon not to locate because the vessel was under a Category 4 4 5 hurricane. 6 Because they are satellite-based, so 7 generally they need a clear link between the actual 8 beacon and the satellite that it's talking to. 9 it was very quick on/off or it couldn't establish a connection with the satellite or if it was subsurface. 10 11 And, again, that's just my opinion of some 12 possible outcomes on why that did not provide a 13 location. 14 MR. This is Commander To 15 clarify the opinion, have you seen unlocated EPIRBs in 16 the past in your experience? 17 Yes. MR. 18 MR. Is it typical that an EPIRB will 19 first ping as an unlocated signal? 20 Generally they all do. MR. 21 MR. And then in your experience that 22 you would expect a follow-up EPIRB signal? 23 MR. Correct. 24 MR. Did you ever get a follow-up 25 EPIRB signal in this case?

1	MR. No, we did not.
2	MR. BRYSON: This is Dennis Bryson. If they
3	moved the EPIRB selector to test and it sends off that
4	do you get the one ping, right, the set
5	MR. We do not receive the test
6	signal. If they test the beacon properly we receive
7	the emergency signal and that goes up through USMCC, or
8	United States Mission Control Center, and then it'll
9	get directed down to the proper sector.
10	Because this vessel is home ported out of
11	Jacksonville, Florida, the unlocated alert, that's how
12	it got routed to us, because their home port is within
13	our search and rescue region.
14	MR. BRYSON: Is the USMCC, the Mission
15	Control Center, is that the same thing as LANTAREA?
16	MR. WEBB: No.
17	MR. No. It's completely
18	different.
19	MR. WEBB: That's a NOAA function.
20	MR. BRYSON: Okay.
21	MR. WEBB: And they are located in Suitland,
22	Maryland. So if you need to go talk to them you can go
23	to Suitland. I can get you the proper person to talk
24	to.
25	MR. BRYSON: Okay. But this is something

1 automated? 2 MR. WEBB: There is a Mission Control Center 3 The system is automated but there is in Suitland. people that monitor it and there is experts there that 4 5 can explain a lot of that stuff. 6 7 MR. BRYSON: Okay. So it's something that, you know, 8 MR. WEBB: 9 we definitely want to definitely look into. 10 And I think they would be in MR. 11 a lot better position to answer, you know, as far as 12 providing professional opinions on, you know, an 13 unlocated EPIRB or whatever, because that's what they 14 do, that's specifically what they do. 15 MR. BRYSON: Okay. But the first ping is 16 always unlocated? 17 Not always. MR. 18 MR. WEBB: It's another -- Let me explain it 19 again. I'll give my name again, Paul Webb. The reason 20 why they are unlocated is when they get activated, 21 whether it's from the hydrostatic release or it's taken 22 off, nobody has to turn a switch on and off, okay, it's 23 automatic.

signal immediately goes up, the light starts flashing,

Washington DC

So they take it off the bulk head, the

24

25

the signal goes up, and then that signal, it's a data burst, it's a very quick data burst and that data burst has a hexadecimal code and that's what the satellite gets and then this hexadecimal code is what gets transmitted down to USMCC through these local transmission units that are around the country. The Lutz (phonetic). MR. MR. WEBB: The Lutz. And they have a footprint, the satellite has a footprint and one of the

Lutz will pick up the signal. So they get the signal, that hacks that code, then goes to the processing center at Suitland, Maryland, and nobody touches this stuff, it's all automatic.

That system takes it and it says okay, hex code, this information registered in Jacksonville, SRR is D-7 and D-7, it gets transmitted to D-7 and it comes across their SARSAC computer, they get the alert.

It has all the information with the exception of the position because the satellite that picked up the signal is the geostationary satellite. It doesn't have the ability to doppler.

You have to wait until the low earth orbiting satellites come around, due to doppler shift, and that's how they get the position.

> MR. BRYSON: Okay.

1

2

3

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1	MR. WEBB: The only way you get a position
2	on the initial unlocated is
3	MR. E solution.
4	MR. WEBB: if it's got a GPS-enabled
5	system. Either it's through a remote to the GPS at a
6	ship where there is a GPS onboard the unit itself.
7	MR. BRYSON: Okay.
8	MR. And when we do receive that
9	that's called an E solution.
10	MR. WEBB: Right. If it has a GPS
11	(inaudible) E solution, yes.
12	MR. Yes.
13	MR. BRYSON: Okay. But they don't
14	automatically start activating when you remove them
15	from the breadth (phonetic). I mean unless
16	MR. WEBB: Yes, they do.
17	MR. BRYSON: No, they don't. I mean I've
18	taken them out many times. I mean there's a pin in
19	there. Now it's water activated, if the vessel sinks,
20	right, and the hyper release then it pulls
21	MR. WEBB: Right, that's (inaudible). If
22	you pull it off the bracket it activates.
23	MR. BRYSON: No, because when you take them
24	out of the bracket to go to the lifeboat, right, you
25	know, if you do a drill and a lot of times people do

1	drills and they take them out of the bracket and they
2	bring it down to the lifeboat it doesn't activate it.
3	MR. The different manufactures do
4	things differently.
5	MR. WEBB: Yes, 98 percent false alarm
6	(inaudible).
7	MR. Like different manufacturers.
8	MR. BRYSON: But I mean it doesn't
9	automatically activate every time you take it out of
10	the bracket as long as the arming is secure. And there
11	are different types of EPIRBs.
12	MR. WEBB: Right.
13	MR. Yes.
14	MR. BRYSON: Okay. Again, we'll go
15	MR. I think different
16	manufactures would have
17	MR. WEBB: And that's something that we can
18	go to, especially with this one, we can go back to NOAA
19	and to the manufacturer (inaudible).
20	MR. Yes.
21	(Off the record comments)
22	MR. It has the brand on there,
23	too.
24	MR. WEBB: Yes, it's a (inaudible).
25	MR. Yes.

1	MR. FURUKAWA: Okay. Okay, what steps were
2	taken after the phone call with, let's see, with the
3	phone call with Captain Lawrence?
4	MR. Are you talking Mr. Lawrence,
5	John Lawrence?
6	MR. FURUKAWA: Right, John Lawrence, yes,
7	Mr. Lawrence, with
8	MR. Okay. When you say "Captain"
9	I immediately thought a Coast Guard
10	MR. FURUKAWA: (Inaudible) merchant marine -
11	-
12	MR. As far as I think I have
13	already gone over this, but briefed, you know, briefed
14	my SMC on the case, on the situation, everything, you
15	know, we had.
16	I was attempting to contact the vessel
۱7	directly via satellite phone. I made contact with the
18	Emerald Express and I tried to launch the forward
19	deployed MH-60 out of Great Inagua.
20	Also, I was looking at planning for surface
21	assets and what would be available the soonest as far
22	as a Coast Guard cutter. Because we were dealing with
23	a foreign country we don't have any stations, you know,
24	that would be able to provide assistance so I'd have to
25	utilize a Coast Guard outter to go over there

1	MR. FURUKAWA: Okay. Who else assisted with
2	the immediate steps that were taken following the
3	conversation with Mr. Lawrence?
4	MR. So because we could not
5	launch the MH-60 my SMC directed us to get in touch
6	with the hurricane hunter flights that were out there
7	tracking, and these were Air Force flights with NOAA
8	onboard tracking the status of the hurricane, and see
9	if we could possibly use them for assistance and maybe
10	they would be able to, you know, attempt to establish
11	communications or see anything.
12	And we ended up getting in contact with them
13	and they did. However, they didn't go lower than, I
14	think it was 10,000 feet is what they were flying at
15	because they had to stay above the hurricane.
16	MR. WEBB: This is Paul Webb. Did the
۱7	hurricane hunters have a surface search radar
18	capability?
19	MR. I don't know. And, also, I
20	don't know how effective it would have been because
21	they were over top of a hurricane.
22	MR. WEBB: Who would we talk to to find out
23	on that, any idea?
24	MR. I believe they were out of,
25	that particular unit was out of, it was an Air Force

1	unit out of Pascagoula, Mississippi, that was flying on
2	the initial I don't know the squadron name though,
3	sorry.
4	MR. WEBB: And who do you call for a request
5	like that, who did you guys call?
6	MR. So I didn't make that call,
7	Chief Webb actually made that call. I believe he
8	called the base directly.
9	MR. BRYSON: This is Dennis Bryson. Since
10	this was in a foreign country, the Bahamas, would the
11	Coast Guard contact the Bahamian Coast Guard or
12	anything?
13	MR. So we did. The person in
L <b>4</b>	charge of search and rescue response in the Bahamas is
15	called the Royal Bahamian Defense Force and, again,
16	going back to my previous statement with OPBAT, OPBAT,
17	you know, is our in-country hub and they work closely
18	with the Royal Bahamian Defense Force and they made
19	those notifications.
20	
21	Unfortunately, the Bahamas was unable to
22	provide any type of assistance. They had sent all
23	their boats to Key West for hurricane avoidance.
24	I don't know what year it's dated, but it's
25	called the Grey Agreement and it gives us search and

1	rescue authority and ability within the Bahamas, the
2	U.S. Coast Guard.
3	MR. FURUKAWA: They Grey Agreement?
4	MR. The Grey Agreement.
5	MR. Is that G-R-A-Y?
6	MR. It's G-R-E-Y.
7	MR. WEBB: Do you know if that's an MOU or a
8	treaty?
9	MR. I don't know.
10	MR. WEBB: All right.
11	MR. I don't believe it's an MOU,
12	I believe it was higher level.
13	MR. Do you have to get clearance
14	with the Bahamian government prior to conducting SAROPS
15	in their water?
16	MR. It's our local policy that we
17	should, but, no, we don't have to.
18	MR. FURUKAWA: Okay. Commander, we'll be
19	asking for a copy of that. I got it down.
20	MR. Okay.
21	MR. BRYSON: Petty Officer you
22	said earlier you asked the Emerald Express to call you
23	back if they were able to establish contact, did they
24	ever call you back?
25	MR. No, they did not.

They didn't even call you back 1 MR. BRYSON: 2 to let you know that they weren't able to contact the 3 El Faro? No, they did not. 4 MR. 5 MR. BRYSON: Okay. 6 MR. WEBB: This is Paul Webb. Were you able 7 to issue UMIBs? We issued an EGC, Enhanced 8 9 It's just like a UMIB. EGC is Enhanced Group Calling. 10 Group Calling, UMIB is Urgent Marine Information 11 Broadcast. 12 The UMIBs are generally issued by the 13 sectors who have VHF-FM capabilities through the Rescue 14 21 System and the EGCs are for farther offshore, longer 15 range. 16 Mr. Webb was speaking to the sea areas 17 earlier, if we were talking Sea Area 3 or 4 we would 18 need an enhanced group calling. 19 We also would need an enhanced group calling 20 because we were dealing with a foreign even though we 21 were so close to shore, we were within 36 miles of an 22 island in the Bahamas, but it would still require an EGC because of the distance from us. 23 24 We can't call out to the local Bahamian 25 authorities and tell them to issue a UMIB.

2	
_	authorities issue emergency
3	MR. Yes. Yes, where they have
4	radio stations. There is very few that I am aware of
5	in the Bahamas with VHF capability.
6	We also did a, it's called Waterways Net,
7	it's a volunteer organization over in the Bahamas, and
8	they work closely with BASRA, which is Bahamas Air and
9	Sea Rescue Association, and they issued basically a
LO	UMIB over HF.
۱1	MR. WEBB: Okay. Speaking of HF
L2	MR. Yes?
L3	MR. WEBB: through ComCom did they do
L4	voice broadcasts?
L5	MR. Does ComCom do voice
L6	broadcasts, I don't know. But we never directed them
L7	to for this particular case because we had the EGC and
L8	also because we had the Waterways Net broadcast going
L9	out locally in the Bahamas.
20	MR. WEBB: Okay. I understand that there
21	was a second EPIRB that was activated somewhere in the
22	vicinity of this, can you tell me about that?
23	MR. All I know about the second
24	EPIRB activation is that it was an EPIRB, it did

was completely unregistered. 1 2 As you see on that SARSAT datasheet it's 3 properly registered, it has the company name, it has contact information, and it's attached to a vessel. 4 5 unregistered EPIRB has none of that. 6 It just has a position and then it says 7 "information not available at USMCC database." With no previous history, no -- That's all we had, was that 8 9 there was a distress alert and a position. 10 MR. WEBB: What actions were taken on that 11 one? 12 So I'm trying to remember. Ι 13 don't know that we took any further actions on that one 14 because we could not confirm nor deny if that beacon 15 was from this ship or not until we had somebody 16 actually arrive on scene and determine. 17 MR. WEBB: How close was it to the position 18 of the Inmarsat C? 19 I would have to look. MR. 20 don't know how. 21 MR. WEBB: And eventually it was determined 22 that it was not associated with it? 23 MR. Correct. 24 MR. WEBB: And how was that determined? 25 MR. I wasn't on watch that day,

1	so I don't know who you would have to talk to, but
2	generally
3	MR. WEBB: Was it the
4	MR. Can I speak generally on
5	this?
6	MR. WEBB: Sure.
7	MR. We would fly a helicopter
8	over top of it and find out if
9	MR. WEBB: Did it remain active through
10	You got the
11	MR. It did.
12	(Simultaneous speaking)
13	MR. It remained active for some
14	time.
15	MR. WEBB: And so they had that sitting
16	there and
17	MR. And, again, right near shore.
18	MR. WEBB: Right near shore.
19	MS. FINSTERBUSCH: This is Patty
20	Finsterbusch from TOTE Services. We only had one EPIRB
21	onboard and that question was asked at some point.
22	MR. WEBB: Right.
23	MR. Yes.
24	MS. FINSTERBUSCH: And we confirmed that we
25	just had the one.

1	MR. And that's, you know, again,
2	we were trying to confirm all that.
3	MS. FINSTERBUSCH: When you got on duty that
4	morning
5	MR. Yes?
6	MS. FINSTERBUSCH: so you got there at
7	5:30, but at 6 o'clock you would've had the turnover.
8	The hurricane was the big news at that point?
9	MR. I'd say so. The hurricane
10	plus the active search and rescue cases that we had.
11	But, I mean, you say "big news," we do turnover, you
12	know, the same everyday.
13	We go through everything, all the active
14	search and rescue cases, all the law enforcement cases,
15	we go through the weather, the blue force is
16	(inaudible), where all of our assets are in case we
17	need them to respond to any type of situation, whether
18	LE or search and rescue, and our chain of command who
19	is on duty for what position. It's done the same way.
20	MS. FINSTERBUSCH: The storm was, I mean
21	Joaquin started off as kind of a strange storm anyway,
22	but your assets, you moved your assets south.
23	MR. Yes.
24	MS. FINSTERBUSCH: So you
25	MR. I didn't specifically, but

1	MS. FINSTERBUSCH: Well, no, the Coast Guard
2	moved their assets south to, I would assume, from where
3	things were available later on.
4	MR. Yes.
5	MS. FINSTERBUSCH: Do you guys look at the
6	AIS to see that there was a ship heading straight to
7	the
8	MR. No, we don't generally
9	monitor that. As far as, you know, monitoring AIS to
10	see if a vessel is heading into a storm in a foreign
11	country
12	MR. WEBB: Is that a VTS question?
13	MR. I mean it would be if we were
14	talking, you know, the United States. Yes, I mean we
15	would monitor that.
16	I mean we have, like I said before, a CG-1
17	view up on watch, but I don't know that it would be
18	anybody's specific tasking or specific job requirement
19	to monitor that.
20	MR. Is there any objection with this
21	safety group that I am interjecting with questions at
22	all?
23	MS. FINSTERBUSCH: No.
24	MR. FURUKAWA: Well as an attorney, but you

1	MR. Yes.
2	MR. FURUKAWA: Okay. I'll allow it as a,
3	since you are a marine safety to bring that expertise.
4	MR. I am just offering that just to
5	help clarify some of his answers, so I just don't want
6	anything taken out of context for, really for his
7	benefit.
8	MS. FINSTERBUSCH: The reason I asked the
9	question was only because of something that was said in
LO	an earlier interview and I was a little, I was just
L1	surprised that they would send out a C-130 making these
L2	blind announcements to mariners.
L3	I sailed for five years, I never heard of
L4	that and I just was like did you, was someone
L5	monitoring different ships, I'm going to send out a C-
L6	130 to make the announcement that yes, hey, you're
L7	going into a storm.
L8	I mean mariners follow the weather. I would
L9	just have It just seems strange to me. But I want
20	to go back to So that morning, so, what, it takes
21	about 45 minutes for the turnover, in that time period?
22	MR. Sure, give or take, yes.
23	MS. FINSTERBUSCH: Okay. So then this
24	started pretty quick right after
25	MR. Yes.

1	MS. FINSTERBUSCH: Yes, okay. And I know
2	that, but I can't remember exactly when, there was
3	another vessel in distress, was that after that? There
4	was one where the helicopters went out and they
5	MR. Yes, I was involved on that
6	case as well. Is that specific case going to be
7	specific to this?
8	MS. FINSTERBUSCH: At the timing
9	MR. Okay.
10	MS. FINSTERBUSCH: and I'm trying to find
11	my notes
12	MR. Sure.
13	MS. FINSTERBUSCH: but the timing was a
14	little
15	MR. Sure, I'll talk to it. It
16	was the next night and I was coming back on that
17	morning. It was a, I believe it was a Polish-flagged
18	commercial ship, 200 and some odd feet in length that
19	we rescued 12 people off of.
20	The vessel completely sank. They went into
21	the water on a life raft and we rescued the 12 to Great
22	Inagua. That was the same Air Clearwater Forward
23	Deployed MH-60 that effected that rescue. However,
24	this was about 150 miles south.
25	MS. FINSTERBUSCH: And the storm had passed

1	by that time so you were able to track that?
2	MR. This was very far south of
3	the storm and I believe the sea conditions were still
4	not very conducive.
5	I know on that case the cutter couldn't even
6	get close enough to the life raft to get the people off
7	of that because they were reporting 11 to 12-foot seas.
8	So the helicopter actually had to go back,
9	refuel, and go back and rescue the final three on that
10	particular case.
11	MS. FINSTERBUSCH: Okay.
12	MR. That was the next morning.
13	MS. FINSTERBUSCH: Okay.
14	MR. Yes. And it was still, still
15	the conditions that day were still
16	MR. WEBB: Do you remember what the weather
17	was, close to it, you said ten to 12-foot?
18	MR. That was for the Minouche
19	case, correct.
20	MR. WEBB: Yes, right.
21	MR. Yes.
22	MR. WEBB: That's what I'm talking about.
23	MR. Just off of memory I believe
24	it was ten to 12-foot seas.
25	MR. WEBB: What about winds on that one?
ı	

1	MR. I don't remember. I'm sure I
2	could look it up. If it's pertinent to this I can get
3	it for you if you need it, but just off the top of my
4	head I don't remember.
5	MR. FURUKAWA: John Furukawa with the NTSB.
6	The name of the vessel that sunk was the Minouche?
7	MR. The Minouche.
8	MR. FURUKAWA: Paul, do you want to get into
9	the phases that you were going to
10	MR. WEBB: What I'm trying to do as I'm
11	talking about this use an AIAPOC model and
12	MR. Yes.
13	MR. WEBB: that we try to not jump around
14	too far ahead. So far we've been keeping to that, so
15	it's been pretty good, initial actions
16	MR. Yes.
17	MR. FURUKAWA: And do you want to say for
18	the record what the acronym AIAPOC stands for?
19	MR. WEBB: Sure. It's Alert Initial Action
20	Planning, Operations, and Conclusions. It's just a
21	method the Coast Guard has in the Coast Guard addendum
22	to help the SAR controllers put a case in order to make
23	sure they don't miss things. Something you learn in
24	SAR school.
25	So really we are starting to get into

1	planning, all the things talked about so far, initial
2	actions, can you think of any other initial actions
3	that maybe you took that is You kind of hit almost
4	everything I had written down here.
5	MR. No. I do recall calling Air
6	Station Clearwater as well to see if we could get a C-
7	130 even in close.
8	MR. WEBB: And what did they say?
9	MR. That was a negative as well.
10	And it's in MSL as well, but I believe the first and
11	the second day we couldn't get within 100 plus miles,
12	I'll say that.
13	MR. WEBB: And there were attempts to?
14	MR. Yes.
15	MALE PARTICIPANT: The C-130's couldn't get
16	within 100 miles.
17	MR. WEBB: Okay. So you've done all your
18	initial actions and you're starting to go into
19	planning, did you open up MSL, or not
20	MR. Yes.
21	MR. WEBB: MSL, but SAROPS and start
22	initial drift of, that you had off the
23	MR. Yes. I did an LKP scenario
24	for this particular event because we had a very good,
25	probably better than, you know, any search and rescue

case, we had a very good last known position because we 1 2 had the AIS data and we the Inmarsat C distress alert 3 and those correlated with each other. So we had a very good last known position of 4 5 the vessel. 6 MR. LKP is? 7 Last known position, LKP. MR. Okay. So how long did you drift 8 MR. WEBB: 9 it for? 10 MR. I don't recall how long I 11 drifted it for. I know when I opened the case and 12 briefed SMC and we, you know, by this point we were 13 fully aware that we were unable to launch. 14 I don't remember how long I drifted it for. 15 Generally in our training we are told to drift it until 16 the first asset arrives on scene, but that was unknown. 17 MR. WEBB: What directions did you give the 18 hurricane hunters for what you wanted them to do search 19 wise? 20 MR. Well the hurricane hunters 21 were on another mission, so, you know, we couldn't 22 direct them really to do anything because they were on 23 another mission. 24 However, we asked them to do call outs for 25 the motor vessel El Faro and to, you know, if they

1	could locate visually then to, you know, report
2	findings back. However, we knew that they were on
3	another mission and we knew that they were flying above
4	the hurricane.
5	MS. FINSTERBUSCH: This is Patty
6	Finsterbusch. And this is just an additional point,
7	twice I've heard everyone refer to the El Faro as an MV
8	and it's an SS. In your mind would it make a
9	difference to you if it's an MV or an SS?
10	MR. WEBB: No.
11	MR. Not at all.
12	MS. FINSTERBUSCH: If they said loss of
13	power?
14	MR. Not at all.
15	MS. FINSTERBUSCH: Okay. For an engineer,
16	yes, it does. I mean a steam plant and a diesel engine
17	are completely different.
18	MR. WEBB: For
19	MS. FINSTERBUSCH: Okay.
20	MR. WEBB: For the OS we're all in the
21	Command Center, we're all
22	MS. FINSTERBUSCH: All right.
23	MR. No.
24	MR. WEBB: It just doesn't.
25	MR. Yes.

1	MS. FINSTERBUSCH: And then again, were you
2	guys under the impression of loss of propulsion, loss
3	of power, two different Yes.
4	MR. Both. It's two separate
5	things.
6	MS. FINSTERBUSCH: Yes.
7	MR. Two totally different things,
8	yes.
9	MS. FINSTERBUSCH: But which one did you
10	believe the ship had, was it both?
11	MR. Both.
12	MS. FINSTERBUSCH: Both, all right.
13	MR. Based on the information that
14	we got in the email.
15	MS. FINSTERBUSCH: Okay. And from John
16	Lawrence you don't remember exactly what he said, but
17	we could
18	MR. Yes.
19	MS. FINSTERBUSCH: All right. Because we
20	were going with loss of propulsion.
21	MR. That would be, the more
22	dangerous thing would be losing propulsion than losing
23	power, but, yes, we were under the impression that they
24	had lost both.
25	MS. FINSTERBUSCH: Everything, okay.

1	MR. Yes.
2	MS. FINSTERBUSCH: That's all.
3	MR. And we had no direct
4	communications, you know, with the vessel.
5	MR. FURUKAWA: This is John Furukawa with
6	the NTSB. Going along with what Patty just said, was
7	this a disabled vessel or was it an emergency, because
8	we had heard something earlier that
9	MR. WEBB: He said it was in distress phase.
10	MR. FURUKAWA: Was it distress or
11	MR. This was a disabled vessel.
12	This also was an emergency.
13	MR. FURUKAWA: Okay.
14	MR. This was absolutely an
15	emergency. You had a disabled vessel in a hurricane.
16	MR. WEBB: This is Paul Webb. The emergency
17	phases that the Coast Guard uses is uncertainty, alert,
18	and distress. They all have different meanings and you
19	can be, if you just an uncorrelated Mayday or something
20	like that you may be in an uncertainty phase or a white
21	flare would be uncertainty.
22	Alert would be somebody saying hey, I'm
23	disabled, I think I can anchor out, but I may need some
24	help, and they might put you into an alert stage that
25	you need to go and to, you know, go get them at some

1 point. 2 Distress, as soon as you get any of the 3 beacon alerts, the Inmarsat C, SASS would put you into distress immediately and respond that way. That's 4 5 Coast Guard standard everywhere. MR. FURUKAWA: Okay. So the El Faro was it 6 7 always in a distress phase, was it in alert or 8 uncertainty? 9 We were initially in the MR. 10 alert phase and then we quickly shifted to the distress 11 phase because we did not establish any type of 12 communications. 13 And the only reason we were in the alert 14 phase was until we got a clearer picture of what actual 15 weather they were experiencing and also while we were 16 still trying to establish communications. 17 But that very quickly shifted to the 18 distress phase and that's why we were trying to launch, 19 you know, get immediate launch of aircraft. 20 Okay. So about how long was MR. FURUKAWA: 21 it in the alert phase and it went to the distress 22 phase, minutes, seconds? 23 MR. I don't know how long, but it 24 was very quickly where we shifted because of all the

factors, because of the weather, because we still had

25

1	not been able to get communications with the vessel,
2	you know, even after having a ship, another ship that
3	was close by try and call out.
4	MR. FURUKAWA: Okay. And who can elevate it
5	from an alert to a distress?
6	MR. Anybody.
7	MR. FURUKAWA: Anybody can?
8	MR. Yes.
9	MR. FURUKAWA: So you
10	MR. I briefed Captain Coggeshall
11	(phonetic).
12	MR. FURUKAWA: Okay. When you briefed him
13	was it still in alert phase or was it already in
14	distress?
15	MR. I briefed him several times
16	in everything.
17	MR. FURUKAWA: The first time when you
18	briefed him He's the SMC, right?
19	MR. Yes.
20	MR. FURUKAWA: That was you said minutes
21	after you first got the call?
22	MR. Yes.
23	MR. FURUKAWA: Was it still an alert or had
24	it gone to distress?
25	MR. Once we got the beacon alert
ı	

1	and I re-briefed him after that we were in the distress
2	phase.
3	MR. FURUKAWA: Okay. And that beacon is the
4	
5	MR. The EPIRB, the unlocated.
6	MR. FURUKAWA: Okay.
7	MR. BRYSON: You don't recall what time you
8	get this, right?
9	MR. It's time stamped.
10	MR. BRYSON: Yes, it's time stamped on here,
11	so I mean you get this as soon as it goes, right, so
12	this was
13	MR. That's when we received it.
14	MR. BRYSON: So it looks like 7:36.
15	MALE PARTICIPANT: 7:36 it came in.
16	MR. Yes. Thirty-nine. So 11:39
17	Zulu (phonetic) or a coordinated universal time.
18	MR. BRYSON: So that, yes, that was pretty
19	soon after they make this call.
20	MR. Pretty quick.
21	MR. This is Commander Does
22	getting that EPIRB, a notice when you did, elevate or
23	exacerbate the status of how you handle it as a
24	distress or otherwise?
25	MR. I think every case is

1 different, you know. It's hard to say, you know, if 2 this then this. I think every case is different and 3 every case evolves differently, you know. All I can speak to is that's the initial 4 5 information that we got via the email from LANTAREA. 6 You know, I briefed it up with what we had and we went 7 from there. We were in the distress phase, you know, I 8 9 talked to Captain Coggeshall and it was decided that 10 the only thing, you know, the only response that we 11 could take, utilizing proper operational risk 12 management was sending the hurricane hunters out there 13 because it was too dangerous to send in Coast Guard 14 aircraft crews. 15 MR. FURUKAWA: Okay. John Furukawa. So 16 11:36 Zulu time that you got this -- Oh, 11:39 17 coordinated universal time. So if anything at 0739 18 local time is (inaudible) was distressed, okay. 19 MR. WEBB: When you were doing your SAROPS 20 what did you use as a target (inaudible)? 21 A 300-foot vessel. MR. 22 MR. WEBB: Is that the only one? Did you do 23 PIW or (inaudible)? 24 MR. Initially we did the 300-foot 25 vessel because you can't, SAROPS doesn't allow the

1	input of anything greater than 300-foot.
2	MR. WEBB: Okay. But did you put any
3	smaller objects like the life raft or PIWs as other
4	search objects
5	MR. I know I did later on in the
6	case. I'm not sure if I did initially.
7	MR. WEBB: I read somewhere in the MSL, so
8	I'm asking you know, that you contacted the Coast Guard
9	oceanographer at some point?
10	MR. Yes.
11	MR. WEBB: And when did you guys do that?
12	MR. Well
13	MR. WEBB: And the Coast Guard oceanographer
14	is, his name is Art Hanlon.
15	MR. Are you talking for SAROPS
16	support?
17	MR. WEBB: Yes.
18	MR. I did not call him.
19	MR. WEBB: Okay. That happened maybe
20	MR. I think the SAR specialist
21	called him to get some more information.
22	MR. WEBB: Okay. At some point he was
23	though?
24	MR. Yes. I didn't call him
25	directly, no.

1	MR. WEBB: Was that during your watch or was
2	that after?
3	MR. If it was I wasn't made aware
4	of it.
5	MR. WEBB: Okay. All right. So this first
6	watch, the only SRUs you had available that actually
7	were out in the area were the hurricane hunters, is
8	that correct?
9	MR. Correct.
10	MR. WEBB: Okay. So you didn't have
11	anything else you could do besides do the broadcast and
12	
13	MR. Correct.
14	MR. WEBB: So there were only two of the
15	hurricane hunters that were involved or did they sent
16	out other ones after?
17	MR. I believe they sent out other
18	ones after. I think they were flying on it the entire
19	time.
20	MR. WEBB: Okay. So there was almost like a
21	constant stream, when one got relieved by the next?
22	MR. I think there was two a day.
23	MR. WEBB: Two a day?
24	MR. Yes.
25	MR. WEBB: How many hours did they fly?

1	MR. I think they were up, I think
2	they were on scene for eight hours.
3	MR. WEBB: What type of aircraft, do you
4	know what they were?
5	MR. Those are C-130s.
6	MR. WEBB: They're C-130s?
7	MR. Yes. They're Air Force C-
8	130s.
9	MR. WEBB: I'm tapped out. I don't think I
10	have anymore questions.
11	MR. FURUKAWA: Okay. For the Let's see.
12	I have in Mr. Lawrence's notes that the Coast Guard
13	Miami contacted him at 0738 and so the beacon came in I
14	guess as you were talking to him, okay. Okay, does
15	anybody have anything? Patty?
16	MS. FINSTERBUSCH: Patty Finsterbusch. I'm
17	not sure if we're going to go into the next area, so
18	basically when you got off watch that night you
19	couldn't put any assets out, you were looking for
20	assets to pre-position them, correct?
21	MR. Yes.
22	MS. FINSTERBUSCH: And you were waiting for
23	the storm to clear?
24	MR. Correct.
25	MS. FINSTERBUSCH: So when you came on

1	You came back on duty the next morning at 0600?
2	MR. Correct.
3	MS. FINSTERBUSCH: Okay. Can you tell us if
4	anything had changed from when you left to that till
5	you arrived?
6	MR. Yes, I can. No, the
7	hurricane was still on top and it was, looking at the
8	weather forecast it was supposed to stay there for at
9	least the remainder of that day.
10	Also, we were getting updates from the
11	Hurricane Warning Center and it comes to the same email
12	box that that does that has a graphical forecast and
13	forecasted wind and seas for that area.
L <b>4</b>	MS. FINSTERBUSCH: So the hurricane was
15	staying, all the assets were pre-positioned by that
16	time, you had pre-positioned your assets to as soon as
۱7	they could go, the Coast Guard?
18	MR. We had assets available for
19	immediate launch. We just couldn't launch them due to
20	the weather. It was out of their limitations for the
21	helicopters.
22	MS. FINSTERBUSCH: And there was no
23	additional information of any kind of where the ship
24	possibly could be?
25	MR. Correct.

1	MR. WEBB: This is Paul Webb. During that
2	second watch you had there, that whole 12-hour period
3	nothing was able to move except the hurricane hunters?
4	MR. Correct.
5	MR. WEBB: And did you guys update your
6	SAROPS? Again did you do another drift or re-drift
7	from the beginning or how were you keeping up with that
8	to be ready for when you could start launching?
9	MR. Sure. Mr. Webb, at that
10	point all we had was the last known position and the
11	description of the vessel. So at that point we were
12	still in the same position that we were in.
13	We were ready to launch, we were ready to
14	go, we just couldn't. And then as far as the planning
15	and, you know, actual operations go, I believe that
16	came the next day after the storm had passed.
17	MR. WEBB: Okay. So which watch was the
18	first watch that was able to do SAR planning with
19	actual, with SAROPS and to issue an SAP?
20	MR. That would be the third.
21	MR. WEBB: On the third?
22	MR. Correct.
23	MR. WEBB: Morning watch?
24	MR. I believe so, I wasn't there.
25	MR. WEBB: Was there anything significant in
ı	

1	your second watch that occurred that you know to this
2	case information wise or anything else that came up
3	besides maybe the publicity or anything like that, I
4	mean actual
5	MR. Actual things that are
6	relevant to the case, no. No, no, there wasn't. We
7	weren't, we didn't have anything that could go in there
8	and nobody else was going in there either.
9	MR. WEBB: Okay.
10	MR. FURUKAWA: John Furukawa, NTSB. So when
11	this all first started you are saying that the helos
12	couldn't get within a hundred miles and for your second
13	watch the beginning of it was that still about the
14	same, a hundred miles?
15	MR. It was still about the same.
16	MR. FURUKAWA: And 12 hours later they had,
17	when you were getting off watch was it still a hundred
18	miles?
19	MR. So my recollection was that
20	the storm was moving north at two to four knots.
21	MR. FURUKAWA: Okay.
22	MR. And I believe it was a 160
23	nautical mile swath.
24	MR. FURUKAWA: Okay.
25	MR. So moving that slow,

1	something that large
2	MR. Just a point of clarification,
3	this is Commander Was it the helos that
4	couldn't get within a hundred miles or the C-130s?
5	MR. It was both. There was no
6	type of air asset that could get in there.
7	MR. FURUKAWA: Okay. And the hurricane
8	hunters were able to because they would fly over it
9	all?
10	MR. Because they are flying over.
11	MR. FURUKAWA: Yes.
12	MR. Because they are flying at an
13	altitude that's above the actual hurricane, it's not
14	going to cause them any safety issues.
15	MR. FURUKAWA: Right, okay.
16	MR. But if we were going to try
17	and send a Coast Guard asset in we would want them
18	obviously a lot lower so they could, you know, provide
19	that search that we would want, so they could provide
20	that rescuing.
21	MR. FURUKAWA: Right. You stood the 0600 to
22	1800 watches
23	MR. Yes.
24	MR. FURUKAWA: is your watch schedule
25	three days in a row or how do you do it?

1	MR. It's hard to say, it varies.
2	MR. FURUKAWA: Okay. So on the 1st was that
3	the On October 1st was that your first day of your
4	0600 to
5	MR. Correct.
6	MR. FURUKAWA: Okay. So you did three in a
7	row?
8	MR. I did two in a row.
9	MR. FURUKAWA: Two in a row, okay.
10	MR. Our general, speaking in
11	generalities, our general watch schedule is two days on
12	three days off.
13	MR. FURUKAWA: Okay.
14	MR. But based on the needs and
15	based on what's going on that's always subject to
16	change.
17	MR. FURUKAWA: Okay. So the 1st and 2nd
18	were your two days on, did you come back for more work,
19	more watches, on your three days off?
20	MR. I came in for a few hours on
21	Saturday to close out some cases that I had, including
22	the Minouche case that I had told you about, and just
23	administrative paperwork, and that's it.
24	MR. FURUKAWA: Okay. Anybody else? Paul?
25	MR. WEBB: I think I'm done.

1	MR. FURUKAWA: Okay.
2	MS. FINSTERBUSCH: So when you left the
3	second day that was basically the end of your
4	interaction with the El Faro (inaudible)?
5	MR. Until I came back on?
6	MR. FURUKAWA: Which was? Do you know what
7	day?
8	MALE PARTICIPANT: That would be the 6th?
9	MS. FINSTERBUSCH: Sixth?
10	MR. I don't know. Yes, I don't
11	recall right now. I think it was Monday because I got
12	Yes, I think I came back on Monday. I think I only
13	had two days off.
14	MR. FURUKAWA: Okay.
15	MR. I'd have to look at the
16	schedule because I know the schedule changed for this.
17	MR. FURUKAWA: Okay. And do you remember
18	your watch on Monday? Did you have the 1800 to 0600 or
19	did you have the 0600 to
20	MR. No. So, John, the way it
21	works is you work that same shift for a month and then
22	it'll go to the other shift for a month.
23	MR. FURUKAWA: Okay. Okay, so Monday you
24	had the 0600 to 1800?
25	MR. Yes.

1	MR. FURUKAWA: Do you remember what was
2	happening on that watch?
3	MR. We were actively searching by
4	the time that I got back on watch with When I came
5	back on watch it had become a large scale search and
6	rescue operation and we were actively flying with DoD
7	aircraft along with Coast Guard aircraft and had, I
8	believe, three Coast Guard cutters on scene, the
9	Sexton, Reliance, and the Northland.
10	We also had several sorties with multiple
11	aircraft all flying at the same time. Those aircraft
12	included Air Force C-130s, Navy P-8s, MH-60s out of GI,
13	Coast Guard C-130s, Coast Guard 144s out of Miami.
14	MR. FURUKAWA: Okay.
15	MS. FINSTERBUSCH: Patty Finsterbusch from
16	TOTE Services. Were you still looking for a ship at
17	that time or were you
18	MR. No.
19	MS. FINSTERBUSCH: So it was
20	MR. No.
21	MS. FINSTERBUSCH: PIWs and lifeboats,
22	life rafts?
23	MR. Correct.
24	MS. FINSTERBUSCH: Do you know when the
25	Coast Guard no longer was searching for a ship?

1	MR. Are you looking for like a
2	specific time or Because I don't know. The best
3	person to ask that would be Captain Coggeshall when you
4	interview him.
5	MS. FINSTERBUSCH: I'll ask him.
6	MR. Because it's, you know,
7	Patty, that's completely his call.
8	MR. FURUKAWA: Anything else?
9	MR. WEBB: SMC didn't change throughout the
10	whole thing it stayed
11	MR. It did not.
12	MR. WEBB: with the Captain, right?
13	MR. Correct.
14	MS. FINSTERBUSCH: And is that normal that
15	he would just
16	MR. WEBB: Yes.
17	MS. FINSTERBUSCH: he would handle the
18	whole situation?
19	MR. He should, yes.
20	MR. WEBB: Yes. You don't want to shift
21	that (inaudible).
22	MR. FURUKAWA: Okay. So are we about ready
23	to
24	MR. WEBB: Pardon me?
25	MR. FURUKAWA: Are we about ready to end

1	this?	
2	MR. WEBB: I think we are.	
3	MR. FURUKAWA: Okay. let's see, as	
4	we're ending this, is there anything you'd like to add	
5	or change?	
6	MR. Nothing I can think of at	
7	this time, no.	
8	MR. FURUKAWA: Okay. Are there any	
9	questions we should've asked you but did not?	
10	MR. I can't think of anything	
11	right now, no.	
12	MR. FURUKAWA: Okay. So as it pertains to	
13	the sinking of the El Faro do you have any suggestions	
14	for preventing a reoccurrence of the loss of the El	
15	Faro?	
16	MR. No.	
17	MR. FURUKAWA: Okay. And is there anybody	
18	else that we should interview?	
19	MR. I think you should interview	
20	I don't know, who are you interviewing?	
21	MR. FURUKAWA: The watchstanders here and I	
22	guess we're going to want to interview Lieutenant	
23	Commander probably from LANT.	
24	MR. Okay.	
25	MR. FURUKAWA: (Inaudible)	

1	MR. Which watchstanders here, all		
2	of them?		
3	MR. FURUKAWA: Um		
4	MR. WEBB: No, actually we're, what I		
5	requested and I'm wondering a bit that now myself,		
6	originally it was the first two watches, thinking that		
7	the second watch was going to be well into the		
8	planning.		
9	MR. No.		
10	MR. WEBB: So we're basically into the third		
11	day before we got the alpha search.		
12	MR. Lieutenant (phonetic) is		
13	that third		
14	MR. He's here. He was the CDO.		
15	MR. WEBB: So is our next person we're		
16	going to talk to.		
17	MR. FURUKAWA: Because you guys are off duty		
18	right now, right, with your 12 on 12 off.		
19	MR. Yes.		
20	MR. WEBB: So (inaudible)		
21	MR. Do you have Petty Officer		
22	on your list?		
23	MR. WEBB: I don't know if he is on there.		
24	MR. This is Commander He was		
25	not on the original list.		

1	MR. WEBB: I think he should be, I caught	
2	that earlier and I made a note.	
3	MR. Right. I think he should be	
4	added on the list. He did some search planning	
5	overnight and, you know, compiled those	
6	MR. WEBB: The first alpha search?	
7	MR. No, but later on. Because I	
8	think he was, he was on the same schedule as me.	
9	MR. WEBB: So he relieved you or you	
10	MR. Yes. So he relieved me and	
11	then I believe we both had two days off and then I	
12	believe we came back, both of us, for the next three	
13	days.	
14	MR. WEBB: Okay. How about the opposite	
15	watch for the third? So you guys are kind of, he was	
16	night, too?	
17	MR. I was days, he was nights.	
18	MR. WEBB: Okay. Who was the night/days on	
19	the next set, and would they have gone into Day 3?	
20	MR. Yes.	
21	MR. WEBB: Okay. That group of people	
22	MR. That as Day 3 and 4.	
23	MR. WEBB: that watch section, night and	
24	day, whoever was on there, CDO, OU, confirm who those	
25	guys are and how we can talk to them.	

- 1	
1	MR. Okay.
2	MR. WEBB: We'll be here for another month.
3	MR. FURUKAWA: And you have my card and all
4	that.
5	MR. Sure.
6	MR. FURUKAWA: It is now You all ready?
7	MR. WEBB: Yes.
8	MR. FURUKAWA: Okay. It's 1342 and we are
9	ending the interview with OS2
10	-END OF FILE-
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
- 1	

# a.m 2:2 ability 27:21 33:1 able 17:3.15 19:17 30:24 31:10 33:23 34:2,6 42:1 50:1 57:3 57:18 59:8 **ABS** 1:16 absolutely 48:14 Accident 1:4 **Acklins** 15:20 16:3 acronym 17:6,24 43:18 acronyms 13:22 17:11 **Action** 43:19 actions 36:10,13 43:15 44:2,2,18 activate 29:2.9 activated 23:19,20,24 23:25 24:1 26:20 28:19 35:21 activates 28:22 activating 28:14 activation 35:24 active 9:18 37:9,13 38:10,13 actively 62:3,6 acts 9:14 actual 10:17 24:7 49:14 57:15,19 58:4,5 59:13 add 5:4 64:4 added 66:4 addendum 43:21 additional 46:6 56:23 **admin** 8:18 administrative 60:23 advised 11:7 afternoon 13:6 **Agreement** 32:25 33:3 33:4 ahead 23:15 43:14 **AIAPOC** 43:11.18 air 20:1 21:14 31:7,25 35:8 41:22 44:5 55:7 59:6 62:12 aircraft 49:19 52:14 55:3 62:7,7,11,11 **AIS** 16:21 18:6,7,10 39:6.9 45:2 alarm 29:5 alee 19:9 **alert** 12:2,2 13:16 19:15 22:14 25:11 27:17 36:9 43:19 45:2 48:17 48:22,24 49:7,10,13 49:21 50:5,13,23,25 alerts 49:3 allow 40:2 52:25 alpha 65:11 66:6

altitude 59:13 American 2:17 **AMVER** 16:16,17 17:6,8 17:9,22 **AMVER's** 17:7 anchor 48:23 announcement 40:16 announcements 40:12 answer 10:3 23:15 26:11 answered 11:15 answers 40:5 anybody 5:3 22:6 50:6 50:7 55:15 60:24 64:17 anybody's 39:18 **anymore** 14:7 55:10 anyway 38:21 area 4:21 13:25 14:6,8 15:8,14 16:18,19 34:17 54:7 55:17 56:13 areas 13:24 34:16 **arming** 29:10 arrive 6:17 36:16 arrived 56:5 arrives 45:16 **Art** 53:14 ashore 10:9 asked 33:22 37:21 40:8 45:24 64:9 asking 23:12 33:19 53:8 assessment 9:6 asset 19:23,25 20:3 45:16 59:6.17 assets 4:15 17:17 30:21 38:16,22,22 39:2 55:19,20 56:15,16,18 assignment 4:25 assistance 11:6.9 17:13,15,23 19:23 30:24 31:9 32:22 assisted 31:1 associated 36:22 Association 35:9 **assume** 39:2 attached 36:4 attempt 31:10 attempting 30:16 attempts 44:13 attorney 39:24 audio 1:24 13:1,2 authorities 34:25 35:2 authority 33:1 automated 17:12 18:11 18:13 26:1,3 automatic 26:23 27:13

automatically 28:14 29:9 available 12:10 17:17 18:6 20:1,16 30:21 36:7 39:3 54:6 56:18 avoidance 32:23 avoiding 20:18 aware 15:13 17:20 35:4 45:13 54:3 В back 9:22 10:4 13:4 17:3 29:18 32:16 33:23,24 34:1 40:20 41:16 42:8,9 46:2 56:1 60:18 61:5,12 62:4,5 66:12 backfill 14:13 background 3:9 5:4 **Bahamas** 1:4 15:13 20:5,8 21:19,21 22:4 32:10,14,21 33:1 34:22 35:5,7,8,19 **Bahamian** 32:11,15,18 33:14 34:24 barrier 16:11 **base** 32:8 based 20:11,14 47:13 60:14,15 **basically** 4:19 6:12 17:13 20:6 23:23 35:9 55:18 61:3 65:10 **BASRA** 35:8 beacon 24:3,8 25:6 36:14 49:3 50:25 51:3 55:13 beginning 57:7 58:13 behalf 1:19 20:9 believe 8:3 9:21 11:17 15:19 19:6 31:24 32:7 33:11,12 41:17 42:3 42:23 44:10 47:10 54:17 57:15,24 58:22 62:8 66:11,12 benefit 40:7 best 63:2 better 26:11 44:25 big 17:14 21:5,6 38:8 38:11 bit 65:5 **blind** 40:12 **blue** 38:15 board 1:1,25 11:10 **boat** 11:19

brand 29:22 breadth 28:15 briefed 19:19 30:13,13 45:12 50:10,12,15,18 52:6 briefly 11:4 bring 29:2 40:3 British 22:3 broadcast 34:11 35:18 54:11 **broadcasts** 35:14,16 Bryson 1:16 2:17,17 5:5,6,10 25:2,2,14,20 25:25 26:7,15 27:25 28:7,13,17,23 29:8,14 32:9,9 33:21 34:1,5 51:7,10,14,18 **building** 7:15,21 **bulk** 26:24 Bureau 2:17 burst 27:2,2,2 **button** 13:25

## C **C** 2:6 12:1 13:15 19:15 36:18 40:15 44:6 45:2 49:3 55:7 C-130 40:11 C-130's 44:15 **C-130s** 55:5,6 59:4 62:12.13 **Caicos** 20:5 21:20,23 21:24 22:2 **call** 3:6 14:24 15:1,10 16:13 17:1,3 20:4 30:2,3 32:4,5,6,7 33:22,24 34:1,24 45:24 50:3,21 51:19 53:18,24 63:7 called 10:12,14,16 11:4 22:13 28:9 32:8,15,25 35:6 53:21 calling 11:12 13:24 34:9,10,18,19 44:5 capabilities 34:13 capability 31:18 35:5 capable 11:8 **Captain** 10:8 30:3,8 50:10 52:9 63:3,12 card 67:3 carried 23:24 case 3:3 19:21 20:9 23:11 24:25 30:14 35:17 38:16 41:6,6 42:5,10,19 43:22 45:1 45:11 51:25 52:2,3

**boats** 32:23

bracket 28:22,24 29:1

**box** 56:12

29:10

53:6 58:2,6 60:22

cases 6:2,5,7 9:18

60:21 Category 24:4 caught 66:1 cause 23:10 59:14 caused 23:18 24:3 **CDO** 65:14 66:24 **CDR** 1:20 center 1:11 2:5 20:6.20 20:23 21:7,10 25:8,15 26:2 27:12 46:21 56:11 CG-1 16:21 17:25 18:1 39:16 **chain** 38:18 Chairman 2:14 1:7 2:6,8,10 2:24 3:2,3,7,12,19,24 4:3,7,19 5:1,8,16,18 5:22 6:1,15,18,23 7:2 7:5,8,10,14,24 8:2,5,8 8:10,13,16,20 9:1,5,9 9:13,17,21 10:1,3,10 10:14 11:22 12:1,9,11 12:21,25 13:9,18 14:2 14:22 15:1,6,11 16:3 16:7,9,12,15 17:9,12 18:1,5,12,15,18,23 19:1,4,6 20:18,24 21:4,8,11,13,16,19,23 22:2,12,21,25 23:12 23:17 24:17,20,23 25:1,5,17 26:6,10,17 27:7 28:3,8,12 29:3,7 29:13,15,20,22,25 30:4,8,12 31:4,19,24 32:6,13 33:4,6,9,11 33:16,21,25 34:4,8 35:3,12,15,23 36:12 36:19,23,25 37:4,7,11 37:13,17,23 38:1,5,9 38:23,25 39:4,8,13 40:22,25 41:5,9,12,15 42:2,12,14,18,21,23 43:1,7,12,16 44:5,9 44:14,20,23 45:7,10 45:20 46:11,14,23,25 47:4,7,11,13,18,21 48:1,3,11,14 49:9,23 50:6,8,10,15,19,22,25 51:5,9,13,16,20,25 52:21,24 53:5,10,12 53:15,18,20,24 54:3,9 54:13,17,22,24 55:1,5 55:7,21,24 56:2,6,18 56:25 57:4,9,20,22,24 58:5,15,19,22,25 59:5

17:18 38:10,14,14

60:8,10,14,20 61:5,10 61:15,20,25 62:3,18 62:20,23 63:1,6,11,13 63:19 64:6,10,16,19 64:24 65:1,9,14,19,21 66:3,7,10,17,20,22 67:1,5,9 change 60:16 63:9 64:5 changed 56:4 61:16 **charge** 32:14 Charleston 6:2 **Chief** 32:7 1:20 2:21 CIC 4:20 clarification 59:2 clarify 24:15 40:5 class 2:6 13:8 17:14 23:23 clear 24:7 55:23 clearance 33:13 clearer 49:14 **Clearwater** 20:1 21:15 41:22 44:6 close 13:24 14:4 17:22 21:10 34:21 35:25 36:17 42:6,17 44:7 50:3 60:21 closed 22:15 closely 32:17 35:8 **closest** 19:25 20:3 Coast 1:4,17,20 2:4,19 2:21 3:10.11.13.14.15 4:11 5:14 11:7 14:6 17:16 18:2 20:7,15 30:9,22,25 32:11,11 33:2 39:1 43:21,21 48:17 49:5 52:13 53:8 53:13 55:12 56:17 59:17 62:7,8,13,13,25 **code** 27:3,4,11,15 Coggeshall 50:10 52:9 63:3 **ComCom** 35:13,15 come 27:23 60:18 **comes** 27:16 56:11 **coming** 41:16 command 1:11 2:5 20:5 38:18 46:21 Commander 2:21 14:24 22:8 24:14 33:18 51:21 59:3 64:23 65:24 comments 29:21

commercial 11:6,6

commercially 18:6

communicated 11:25

communications 3:20

41:18

17:2,4 19:17 31:11 48:4 49:12,16 50:1 **company** 6:13 11:5 36:3 compiled 66:5 **completely** 25:17 36:1 41:20 46:17 63:7 **computer** 21:3 27:17 concerning 13:12 conclusion 8:22 Conclusions 43:20 **conditions** 19:13 20:14 42:3.15 conducive 42:4 conducting 33:14 confidential 12:8 confirm 36:14 38:2 66:24 confirmed 37:24 connection 24:10 consent 2:9 consistent 15:24 19:12 constant 54:21 **contact** 6:13 19:18 20:10 30:16,17 31:12 32:11 33:23 34:2 36:4 contacted 16:25 53:8 55:13 context 40:6 continuation 13:7 continue 14:12 **Control** 25:8.15 26:2 controller 3:4,20,21,25 4:10 5:7 controllers 43:22 conversation 10:8,13 31:3 conversations 11:11 19:1 coordinated 51:17 52:17 **coordinator** 6:8,9 19:20 **copy** 33:19 **Corps** 1:20 **correct** 6:25 7:2 8:16 9:20 20:24 21:16 24:23 36:23 42:19 54:8,9,13 55:20,24 56:2,25 57:4,22 60:5 62:23 63:13 correlated 45:3 could've 23:19 counterparts 10:15 countries 17:18 **country** 27:6 30:23 32:10 39:11 **couple** 14:12

4:7.9 11:14.16.18

1:20 2:21,21 12:8,10,13,16,19 14:21 18:10 22:7,8 23:15 24:14,14,18,21 24:24 33:5.13.20 39:20 40:1,4 45:6 51:21,21 59:2,3 65:12 65:24,24 crews 52:14 **Crooked** 15:20 16:2 Crookeds 16:4 CU 3:20 4:5 **cutter** 3:14 4:18 30:22 30:25 42:5 cutters 20:15 62:8 D

**D-17** 2:19 **D-7** 6:2,7,12 11:18 27:16,16,16 danger 11:3 dangerous 47:22 52:13 data 19:2,3 27:1,2,2 45:2 database 36:7 datasheet 36:2 dated 32:24 day 6:19 7:4,18,21 8:1 36:25 42:15 44:11 54:22,23 56:9 57:16 60:3 61:3.7 65:11 66:19.22.24 days 59:25 60:11,12,18 60:19 61:13 66:11,13 66:17 DCA16MM001 1:4 de-watering 11:1 12:5 deactivated 23:19 dealing 30:22 34:20 decided 52:9 **Defense** 32:15,18 **Define** 9:13 **definitely** 7:17 26:9,9 degree 10:25 **Dennis** 1:16 2:17 5:5 25:2 32:9 deny 36:14 **deployed** 20:2 30:19 41:23 describe 5:24 10:7 describing 10:16 description 57:11 designated 10:9 determine 36:16 **determined** 36:21,24 diesel 46:16 difference 46:9

59:10,12,16,23 60:1,5

different 13:24 25:18

34:3 45:25 46:7 49:6 factors 2:14 19:14 38:15 55:7 62:12 29:3,7,11,15 40:15 49:25 46:17 47:3,7 48:18 61:4 64:13,14 forecast 56:8,12 fair 9:5 52:1,2 **elevate** 50:4 51:22 **forecasted** 15:15 56:13 differently 29:4 52:3 **email** 10:15 11:21,24,25 **false** 29:5 foreign 17:18 30:23 digital 13:23 12:7,8,20 13:11 14:14 familiar 15:7 32:10 34:20 39:10 direct 6:1,8 11:18 45:22 14:20 15:2,5 19:19 far 11:5 17:15,19 26:11 forward 20:2 30:18 48:3 20:20,21 47:14 52:5 30:12,21 39:9 42:2 41:22 directed 25:9 31:5 forwarding 15:2 56:11 43:14,14 44:1 57:14 **Emerald** 15:16 16:11.14 Faro 1:4 11:18,19 13:12 found 16:23 35:16 directions 45:17 16:23 18:21 30:18 14:9 16:6 19:24 34:3 four 3:15 58:20 45:25 46:7 49:6 61:4 directly 16:25 20:6 33:22 Friday 6:17 30:17 32:8 53:25 emergencies 9:11,13 64:13,15 fully 45:13 disabled 10:25 48:7,11 **emergency** 25:7 35:2 Faro's 22:19 function 14:10 25:19 48:7,12,15,16 farther 34:14 **further** 36:13 48:15.23 discuss 23:8 ended 31:12 feed 16:21,22,24 Furukawa 1:16 2:3,7,11 discussed 14:25 enforcement 38:14 feeds 18:7 2:13,23 3:5,8,17,22 feet 31:14 41:18 distance 34:23 **engine** 46:16 4:1,17,23 5:3,9,11,13 distress 12:2 19:18,21 engineer 46:15 file 13:1,3 67:10 5:17,20,23 6:10,16,21 36:9 41:3 45:2 48:9 enhanced 34:8,9,18,19 final 42:9 6:24 7:3,7,22,25 8:11 48:10,18 49:2,4,7,10 **enter** 4:16 find 6:14 9:22 10:3,18 8:14,17,24 9:2,7,10 49:18,21 50:5,14,24 **entire** 54:18 16:18 31:22 37:8 9:14,20,24 10:2,7,11 51:1,24 52:8 environmental 4:13 41:10 11:20,23 12:15,18,23 distressed 52:18 **EPIRB** 19:15 22:8,9,12 findings 46:2 13:4,21 14:14,16,19 **District** 1:11 2:5 3:4 22:15,19 23:5 24:18 **fine** 3:7 14:23 15:4,7 16:1,5,8 16:10,13 17:5,10,24 13:12 24:22,25 25:3 26:13 finished 14:16 **DoD** 62:6 35:21,24,24 36:5 Finsterbusch 1:17 2:15 18:4,9,13,16,19,21,25 doing 3:22,23 7:15 9:15 37:20 51:5,22 2:15 22:17,18,22 19:3,5 20:17,22 21:2 **EPIRBs** 24:15 29:11 11:5 52:19 37:19,20,24 38:3,6,20 21:5,9,12,14,17,21,24 38:24 39:1,5,23 40:8 doppler 27:21,23 especially 29:18 22:5,11 30:1,6,10 drift 44:22 45:8.15 57:6 40:23 41:1,8,10,13,25 establish 17:2.3 19:17 31:1 33:3,18 39:24 drifted 45:11,14 24:9 31:10 33:23 42:11,13 46:5,6,12,15 40:2 43:5,5,8,17 48:5 drill 28:25 49:11.16 46:19,22 47:1,6,9,12 48:5,10,13 49:6,20 drills 29:1 established 11:14 47:15,19,25 48:2 50:4,7,9,12,17,20,23 **DSC** 13:23 event 44:24 55:16,16,22,25 56:3 51:3,6 52:15,15 55:11 due 19:14 22:15 27:23 eventually 36:21 56:14,22 61:2,9 62:15 58:10,10,16,21,24 56:19 Everybody 20:18 62:15,19,21,24 63:5 59:7,11,15,21,24 60:2 everyday 38:12 **duties** 4:18 63:14.17 60:6,9,13,17,24 61:1 first 6:12 8:6,7 16:15 duty 4:24 5:21 38:3,19 evolves 52:3 61:6,14,17,23 62:1,14 56:1 65:17 exacerbate 51:23 22:13 24:19 26:15 63:8,22,25 64:3,8,12 **DVL** 18:23,25 exactly 15:23 18:24 44:10 45:16 50:17,21 64:17,21,25 65:3,17 19:11 41:2 47:16 54:5 57:18 58:11 60:3 67:3,6,8 Ε exception 27:19 65:6 66:6 G five 12:19 40:13 execution 6:6 **E** 28:3,9,11 earlier 18:6 33:22 34:17 **expect** 24:22 flare 48:21 **G-R-A-Y** 33:5 40:10 48:8 66:2 **experience** 3:11 23:3 flashing 26:25 **G-R-E-Y** 33:6 earth 27:22 24:16,21 **flights** 31:6,7 general 60:10,11 float 23:21 easy 10:3 experiencing 49:15 generalities 60:11 Florida 1:11 25:11 effect 20:13 expertise 40:3 generally 8:22 24:7,20 effected 41:23 experts 26:4 fly 37:7 54:25 59:8 34:12 37:2,4 39:8 effective 31:20 explain 4:5 13:21 17:6 flying 31:14 32:1 46:3 45:15 efforts 21:1 17:10 26:5,18 54:18 59:10,12 62:6 geostationary 27:20 **EGC** 34:8,9,23 35:17 **Express** 15:16 16:11,14 62:11 getting 3:16 4:21 31:12 16:23 18:22 30:18 **follow** 40:18 **EGCs** 34:14 51:22 56:10 58:17 33:22 follow-on 23:2 GI 62:12 eight 55:2 either 14:3 23:21 28:5 **eye** 21:6 follow-up 24:22,24 give 26:19 40:22 45:17 58:8 following 31:2 gives 32:25 **EI** 1:4 11:18,19 13:12 footprint 27:9,9 **go** 2:11 9:8,22 10:4 14:9 16:6 19:24 22:19 fact 22:18 force 31:7,25 32:15,18 12:11,20,21 13:10

16:4.18.20 19:23 46:7 48:8 **INCIDENT** 1:4 16:4.10 38:21 44:3 23:15 25:22,22 28:24 helicopter 20:12 37:7 included 62:12 56:23 66:15 29:14,18,18 30:25 42:8 including 60:21 knew 46:2,3 31:13 38:13,15 40:20 **helicopters** 41:4 56:21 information 10:18,19 **knot** 19:7 42:8,9 44:18 48:25,25 helos 58:11 59:3 10:20 14:20 18:11,13 knots 58:20 **know** 2:8 3:9,10 6:10,11 55:17 56:17 57:14,15 help 40:5 43:22 48:24 27:15,18 34:10 36:4,7 58:7 61:22 hex 27:14 47:13 52:5 53:21 6:14 7:10,25 9:22 goes 14:8 23:10 25:7 hexadecimal 27:3,4 56:23 58:2 10:5 11:5,5,25 12:3 26:25 27:1,11 51:11 hev 40:16 48:22 initial 11:2,10 28:2 32:2 13:16 14:1 15:3,12 going 10:5 11:13,23 HF 14:8 35:10,11 43:15,19 44:1,2,18,22 17:18,19,21 19:9,12 **HFDSC** 13:16,23 14:10 19:16 21:5 22:25 23:7 12:23 15:2 32:16 52:4 35:18 40:15,17 41:6 initially 49:9 52:24 53:6 high-value 4:15 23:16 26:8,11,12 43:9 47:20 48:6 55:17 higher 33:12 **Inmarsat** 12:1 13:15 28:25 30:13,15,23 58:8 59:14.16 60:15 highly 17:21,21 19:15 36:18 45:2 49:3 31:10,19,20 32:2,17 64:22 65:7,16 history 36:8 32:24 33:7,9 34:2 **input** 53:1 **good** 15:17 43:15 44:24 hit 23:5 44:3 inspection 22:10 35:16,23 36:13,20 Hobby 14:24 interaction 61:4 37:1 38:1,12 39:9,14 45:1,4 gotten 10:15 24:2 home 9:8,9 25:10,12 interested 12:14 39:17 41:1 42:5 44:25 government 20:8 33:14 honestly 7:16 interference 24:3 45:11,12,21,25 46:1 **GPS** 28:5,6,10 Hoppy 64:23 interjecting 39:21 48:4,25 49:19,23 50:2 GPS-enabled 28:4 hours 7:9,11,17 22:15 internal 18:2 52:1,1,3,6,8,10 53:5,8 graphical 56:12 54:25 55:2 58:16 interview 1:7 2:9 12:24 55:4 57:15 58:1 59:18 61:6,10,16 62:24 63:2 Great 20:2 21:15 30:19 60:20 13:7.8.10 40:10 63:4 41:21 hub 20:7 32:17 64:18,19,22 67:9 63:6 64:20 65:23 66:5 greater 7:9,11 53:1 hundred 58:12,14,17 **INTERVIEWEE** 1:19 known 45:1,4,7 57:10 **Grey** 32:25 33:3,4 59:4 interviewing 2:5 64:20 group 2:14,16,18,20 hundreds 20:16 introduce 2:12 hunter 31:6 34:9,10,18,19 39:21 investigations 4:14 **LANT** 11:21 64:23 hunters 31:17 45:18,20 involved 41:5 54:15 66:21 **LANTAREA** 10:15 **Guard** 1:17,20 2:4,19 52:12 54:7,15 57:3 island 16:24 19:9 22:3 13:11 25:15 52:5 2:22 3:10,11,13,14,15 59:8 34:22 large 59:1 62:5 4:11 5:15 11:7 14:6 hurricane 8:19 15:24 islands 15:20 16:2 22:1 launch 19:23 30:18 17:16 18:2 20:7,15 19:13 20:21 21:6 24:5 **issue** 17:1 34:7,25 35:2 31:5 45:13 49:18,19 30:9,22,25 32:11,11 31:6,8,15,17,21 32:23 57:19 56:19,19 57:13 38:8,9 45:18,20 46:4 issued 34:8.12 35:9 33:2 39:1 43:21,21 launching 57:8 48:17 49:5 52:13 53:8 48:15 52:12 54:7,15 **issues** 59:14 law 38:14 53:13 55:12 56:17 56:7,11,14 57:3 59:7 it'll 25:8 61:22 **Lawrence** 10:9,16 30:3 59:17 62:7,8,13,13,25 59:13 30:4,5,6,7 31:3 47:16 J Lawrence's 55:12 guess 11:23 55:14 **hydrostatic** 24:1 26:21 64:22 hyper 28:20 Jacksonville 3:15,18 **LE** 38:18 guys 23:7 32:5 39:5 4:2,4 25:11 27:15 learn 43:23 47:2 53:11 57:5 65:17 **JAG** 1:20 2:22 **leave** 4:16 66:15,25 idea 31:23 Joaquin 38:21 **left** 7:6,21 56:4 61:2 identification 18:16,17 **job** 2:25 3:1,3 6:11 **length** 41:18 н **LEO** 23:6 18:18 39:18 hacks 27:11 immediate 31:2 49:19 **John** 2:7,13 10:8,16,22 **let's** 3:5 5:13 6:17 14:23 hails 4:8 56:19 11:4,7,12,17 30:5,6 17:5 22:5 30:2 55:11 hampered 21:1 immediately 20:25 43:5 47:15 48:5 52:15 64:3 handle 51:23 63:17 26:25 30:9 49:4 58:10 61:20 level 33:12 handled 4:15 9:11 **JON** 1:16 **impression** 47:2,23 liaise 20:8 handles 4:11 in-country 20:7 32:17 jump 43:13 Lieutenant 64:22 65:12 **Hanlon** 53:14 Inagua 20:2 21:15 life 41:21 42:6 53:3 Κ happened 53:19 30:19 41:22 62:22 happening 9:18 62:2 inaudible 16:11 21:15 keep 11:12 lifeboat 28:24 29:2 hard 52:1 60:1 28:11,21 29:6,19,24 keeping 43:14 57:7 lifeboats 62:21 head 10:6 26:24 43:4 30:10 38:16 52:18,20 **keeps** 4:9 light 26:25 **heading** 39:6,10 52:23 61:4 63:21 limitations 20:15 56:20 **Key** 6:3 32:23

kind 4:1 14:13 15:5

64:25 65:20

heard 22:23,23 40:13

link 24:7

list 11:1 65:22,25 66:4 listen 6:11 listing 12:4 little 5:1 13:25 22:1 40:10 41:14 live 16:22 LKP 44:23 45:6,7 local 27:5 33:16 34:24 35:1 52:18 locally 35:19 locate 24:4 46:1 located 25:21 location 24:13 Logbook 19:3 long 3:10 4:23 29:10 45:8,10,14 49:20,23 long-range 18:7 longer 7:16,17 34:14 62:25 look 8:2 10:4 18:23 22:20 26:9 36:19 39:5 43:2 61:15 looking 30:20 55:19 56:7 62:16 63:1 looks 14:24 51:14 losing 47:22,22 loss 46:12 47:2,2,20 64:14 lost 47:24 lot 4:13,14 11:14 26:5 26:11 28:25 59:18 low 27:22 lower 31:13 59:18 Lutz 27:7,8,10

#### M

making 19:22 40:11
MALE 44:15 51:15 61:8
management 52:12
manned 20:7
manually 23:25
manufacturer 29:19
manufacturers 29:7
manufactures 29:3,16
marine 4:13,14 30:10
34:10 39:25 40:3
mariners 17:15 40:12
40:18
Maryland 25:22 27:12
master 23:18
3:6,8 4:5 64:3

1:7 2:6 3:2 12:24 13:9 67:9 Mayday 48:19 mean 7:12,17 8:20,21 28:15,17,18 29:8 38:11,20 39:13,14,16 40:18 46:16 51:11

58:4 meanings 48:18 member 2:16,18 memory 42:23 merchant 30:10 method 43:21 MF 14:6 MH-60 20:2 30:19 31:5 41:23 MH-60s 62:12 Miami 1:11 4:24 5:6 55:13 62:13 mile 58:23 miles 14:5 15:19 16:18 20:16 34:21 41:24 44:11,16 58:12,14,18 59:4 mind 46:8 mindset 23:11 Minouche 42:18 43:6,7 60:22 minutes 7:18,20 8:23 8:24 12:19 19:19 40:21 49:22 50:20 mission 6:6,7,9 19:20 25:8,14 26:2 45:21,23 46:3 missions 4:11

39:15,19 monitoring 39:9 40:15 month 61:21,22 67:2 morning 38:4 40:20 41:17 42:12 56:1 57:23 motor 15:16 45:25 MOU 33:7,11 move 57:3 moved 25:3 38:22 39:2 moving 58:20,25 MSL 44:10,19,21 53:7 multiple 62:10 Mutual 17:13 MV 46:7,9

Mississippi 32:1

Monday 61:11.12.18.23

monitor 14:7 26:4 39:9

mistake 13:6

model 43:11

N

name 2:24,25,25 3:2 8:6,7 26:19 32:2 36:3 43:6 53:14 names 21:25 National 1:1,25 nautical 58:23 Navy 62:12 near 15:18 37:17,18 need 24:7 25:22 34:18 34:19 38:17 43:3 48:23,25 needs 60:14 negative 44:9 Net 35:6.18 never 11:18 22:12,16 35:16 40:13 news 38:8,11 night 41:16 55:18 66:16 66:23 night/days 66:18 nights 66:17 NOAA 25:19 29:18 31:7 normal 63:14 normally 8:25 north 16:8 58:20 Northland 62:9 note 66:2 notes 41:11 55:12 notice 51:22 notification 22:9 notifications 32:19 NTSB 1:4,16 2:7,13 43:5 48:6 58:10 number 23:18

0

o'clock 38:7 O-V-E-R-T-O-N 8:5 objection 39:20 objects 53:3.4 obviously 15:12 22:4 59:18 occurred 58:1 oceanographer 53:9.13 October 1:5,10 2:3 6:16 10:11 13:5 60:3 odd 41:18 offering 40:4 office 19:20 officer 2:8,24 8:3 12:24 33:21 39:25 65:21 offshore 14:9 34:14 Oh 19:3 52:16 okay 2:11,23 3:5,6,8,12 3:17 4:1,17,17,23 5:3 5:13,13,20,23 6:10,13 6:15,21,24 7:7,22 8:11,24 9:7,10,24 10:2,7 11:20 12:23 13:4,20 14:4,16,18,19 14:23 15:4,7 16:1,5 16:10 17:5,5,10,24 18:4,9,13,19 19:5 20:17 21:5,9,12,24 22:5,22 23:12 25:20 25:25 26:7,15,22

27:14.25 28:7.13 29:14 30:1,1,8 31:1 33:18,20 34:5 35:11 35:20 40:2,23 41:1,9 42:11.13 44:17 45:8 46:15,19 47:15,25 48:13 49:6,20 50:4,12 51:3,6 52:15,18 53:2 53:19.22 54:5.10.20 55:11,14,14 56:3 57:17 58:9,21,24 59:7 59:15 60:2,6,9,13,17 60:24 61:1,14,17,23 61:23 62:14 63:22 64:3,8,12,17,24 66:14 66:18,21 67:1,8 old 3:9,12 on/off 22:22 24:9 onboard 4:18 28:6 31:8 37:21 Once 50:25 ones 54:16,18 **OPBAT** 20:4 21:17,18 32:16,16 open 44:19 opened 45:11 operation 5:7 20:5 21:19.21 62:6 operational 52:11 operations 2:5 3:3,24 6:5 7:23 9:15 13:8 43:20 57:15 opinion 23:9,9,13,17 24:2,11,15 opinions 26:12 opposite 66:14 **OPSUM** 10:4 orbiting 27:23 order 43:22 organization 35:7 original 65:25 originally 65:6 OS 46:20 OS's 4:19 OS2 1:7 67:9 OU 3:4 5:15.15.18.25 7:23 9:15 66:24 outcomes 24:12 outs 17:1 45:24 overnight 66:5 oversight 6:1,4 8:3,4,11 65:22 owned 22:3

P-8s 62:12 P-R-O-C-E-E-D-I-N-G-S 2:1 paperwork 60:23 **Pardon** 63:24 **PARTICIPANT** 44:15 51:15 61:8 particular 31:25 35:17 42:10 44:24 Pascagoula 32:1 pass 7:15,19 8:11,20,22 passed 41:25 57:16 Patricia 2:15 Patty 1:17 22:17 37:19 46:5 48:6 55:15,16 62:15 63:7 Paul 1:17 2:19 5:11 13:14 22:10 23:3 26:19 31:16 34:6 43:8 48:16 57:1 60:24 pause 12:18,24 **paused** 13:10 people 4:8 11:10 26:4 28:25 41:19 42:6 66:21 percent 29:5 **period** 40:21 57:2 permanent 5:20 person 4:8 6:12 10:9,21 25:23 32:13 63:3 65:15 pertains 64:12 pertinent 43:2 Petersburg 6:3 Petty 2:8,24 8:3 12:24 33:21 65:21 **phase** 19:18,22 48:9,20 49:7,10,11,14,18,21 49:22 50:13 51:2 52:8 phases 43:9 48:17 phone 15:5 16:25 19:1 30:2,3,17 phonetic 13:15 14:24 27:7 28:15 50:11 51:17 65:12 pic 17:7 pick 27:10 **picked** 27:20 picture 49:14 **pilots** 20:10 pin 28:18 ping 24:19 25:4 26:15 **PIW** 52:23 **PIWs** 53:3 62:21 planning 6:6 30:20 43:20 44:1,19 57:14 57:18 65:8 66:4 plant 46:16 **plot** 20:19 plotted 15:11

plotting 21:2 **plus** 19:7 38:10 44:11 point 37:21 38:8 45:12 46:6 49:1 53:9,22 57:10.11 59:2 policy 6:4 33:16 Polish-flagged 41:17 pollution 4:14 port 4:16 25:12 **ported** 25:10 position 5:14 12:6 15:9 15:12 20:19,22 22:13 22:16 23:6,21 26:11 27:19,24 28:1 35:25 36:6,9,17 38:19 45:1 45:4,7 57:10,12 possible 20:12 24:12 **possibly** 31:9 56:24 power 12:5 46:13 47:3 47:23 pre-position 55:20 pre-positioned 56:15 56:16 preparations 19:22 present 1:19 4:24 pretty 3:22 5:23 21:9 40:24 43:15 51:18.20 preventing 64:14 previous 32:16 36:8 previously 12:3 primary 5:21 **print** 12:11,21 13:11 **printout** 22:8,9 prior 3:16 7:18 33:14 **probably** 8:12 44:25 64:23 processing 27:11 produced 1:24 professional 26:12 program 18:2 proper 25:9,23 52:11 properly 25:6 36:3 **propulsion** 47:2,20,22 protecting 4:15 protection 4:14 **provide** 6:4 17:15,17,23 24:12 30:24 32:22 35:25 59:18,19 provided 1:24 12:6 22:9 22:13,16 23:21 **providing** 11:9 26:12 publicity 58:3 pull 16:16 28:22 **pulled** 17:6

**pulls** 28:20

53:2 55:19

put 43:22 48:24 49:3

Q question 13:15 22:6 23:2 37:21 39:12 40:9 **auestions** 5:4 11:15 13:13 14:12,17 39:21 55:10 64:9 quick 24:9 27:2 40:24 51:20 quickly 49:10,17,24 R radar 4:20 31:17 radio 4:9.20 14:1 35:4 radiomen 4:8 raft 41:21 42:6 53:3 rafts 62:22 range 34:15 re-briefed 51:1 re-drift 57:6 read 53:7 ready 57:8,13,13 63:22 63:25 67:6 really 9:3 40:6 43:25 45:22 reason 26:19 40:8 49:13 reasons 23:4 20:20 51:13

recall 7:5 11:2 44:5 45:10 51:7 61:11 receive 25:5,6 28:8 received 13:17 15:10 receiving 19:15,15,16 recollect 10:12 recollection 58:19 record 22:7 29:21 43:18 **refer** 46:7 refuel 42:9 **region** 25:13 registered 27:15 36:3 relative 15:8 release 24:1 26:21 28:20 relevant 58:6 Reliance 62:9 relief 7:19 relieved 7:25 8:12 54:21 66:9.10 remain 37:9 remainder 56:9 remained 37:13 remember 7:16,20 9:24 11:24 15:23 19:8.11 36:12 41:2 42:16 43:1 43:4 45:14 47:16 61:17 62:1 **remote** 17:16 28:5 remotely 20:12

**remove** 28:14 removing 11:9 **render** 19:23 reoccurrence 64:14 report 11:2 15:17 46:1 reported 10:22 13:18 19:12 reporting 15:21,24 19:7 19:10 42:7 reports 20:11 represent 2:12 representative 2:22 6:8 request 32:4 requested 17:1 35:1 65:5 require 34:22 **requirement** 8:14 39:18 rescue 4:4,12 6:6,7 9:18 20:13 25:13 32:14 33:1 34:13 35:9 38:10,14,18 41:23 42:9 44:25 62:6 rescued 41:19,21 rescuing 59:20 resources 17:21 respond 20:1 38:17 49:4 response 17:17 32:14 52:10 responsibilities 5:25 responsible 5:24 review 6:5 **right** 9:16 10:5 12:16,16 18:20 20:20,23 25:4 28:10,20,21,24 29:12 30:6 33:10 37:17.18 37:22 40:24 42:20 46:22 47:12,19 50:18 51:8,11 54:5 59:15,21 61:11 63:12 64:11 65:18.18 66:3 risk 52:11 room 2:12 routed 25:12 59:25 60:7,8,9 65:12,15 **Royal** 32:15,18

S safety 1:1,25 39:21,25 40:3 59:14 sailed 40:13 salvage 11:6 sank 41:20 SAP 57:19 SAR 4:1 6:7,9 9:14,15

19:20 43:22,24 53:20

57:18

**SAROPS** 33:14 44:21 52:19,25 53:15 57:6 57:19 **SARSAC** 27:17 **SARSAT** 36:2 **SAS** 12:2 **SASS** 13:15 49:3 **SAT** 16:25 satellite 24:8.10 27:3.9 27:19,20 30:17 satellite-based 18:7 24:6 satellites 27:23 Saturday 60:21 saying 19:8 48:22 58:11 says 27:14 36:6 **scale** 62:5 scenario 44:23 scene 15:18,18 36:16 45:16 55:2 62:8 schedule 8:3 59:24 60:11 61:16,16 66:8 scheduled 6:25 school 43:24 screen 21:3 sea 34:16,17 35:9 42:3 search 4:3.12 6:6.7 9:18 25:13 31:17 32:14,25 38:10,14,18 44:25 45:18 53:4 59:19 62:5 65:11 66:4 66:6 searching 62:3,25 seas 19:7 42:7,24 56:13 second 2:6 13:8 35:21 35:23 44:11 57:2 58:1 58:12 61:3 65:7 **seconds** 49:22 section 66:23 sector 3:15 6:2 25:9 **sectors** 6:5 34:13 **secure** 29:10 secured 11:1 see 3:5 5:13 6:17 10:4 10:19 11:13 14:23 17:5 19:22 20:10,11 22:5,14 30:2 31:8,11 36:2 39:6,10 44:6 55:11 64:3 seen 24:15 selective 13:23 selector 25:3 send 20:12 40:11,15 52:13 59:17 sending 52:12 **sends** 25:3 **Seneca** 3:14

sent 32:22 54:15.17 separate 47:4 **Services** 1:17 2:16 22:18 37:20 62:16 set 25:4 66:19 Seventh 1:11 **severe** 15:22 **Sexton** 62:9 shift 27:23 61:21.22 63:20 shifted 49:10,17,24 **ship** 4:18 10:22,24 11:3 11:12,16 15:12,12 16:5.7.22 17:22 19:18 28:6 36:15 39:6 41:18 47:10 50:2,2 56:23 62:16,25 ship's 12:6 15:8 **shipping** 2:18 6:13 **ships** 4:20 17:14,14 18:8 23:23 40:15 **shore** 13:24 14:4 34:21 35:25 37:17,18 should've 64:9 **showed** 18:3,5 **shows** 16:21 side 15:20 16:1,24 signal 24:19,22,25 25:6 25:7 26:25 27:1,1,10 27:10,20 significant 57:25 Simultaneous 7:13 37:12 **sinking** 11:3 64:13 sinks 28:19 sir 21:13 **sitting** 16:4 37:15 **situation** 3:19 5:18 10:16,24 17:20 30:14 38:17 63:18 situations 4:10 Six 6:23 **Sixth** 61:9 **slow** 58:25 smaller 53:3 **SMC** 30:14 31:5 45:12 50:18 63:9 solus 17:14 23:23 solution 28:3,9,11 somebody 15:17 36:15 48:22 **soon** 15:2 49:2 51:11 51:19 56:16 **soonest** 30:21 sorry 5:5 18:17 32:3 **sorties** 62:10

sought 17:21

sound 22:23

south 16:2 22:3 38:22 39:2 41:24 42:2 **spaces** 17:16 **speak** 37:4 52:4 **speaking** 7:13 34:16 35:11 37:12 60:10 specialist 2:6 13:8 53:20 **specific** 6:19 39:18,18 41:6,7 63:2 specifically 7:21 19:8 26:14 38:25 specifics 9:22 **spent** 3:15 **spoke** 11:4 **spoken** 10:21 squadron 32:2 **SRR** 27:15 **SRUs** 54:6 **SS** 46:8,9 **St** 6:3 stage 48:24 **stamped** 51:9,10 **stand** 5:15,17,18 standard 49:5 stands 18:10 43:18 start 3:1 13:2 28:14 44:21 57:8 started 19:22 38:21 40:24 58:11 **starting** 43:25 44:18 starts 6:21 8:21 26:25 stated 8:17 12:3 statement 32:16 States 17:19 25:8 39:14 station 4:2 20:1 21:14 44:6 stations 30:23 35:4 **status** 15:8,9 31:8 51:23 stay 31:15 56:8 stayed 7:20 8:18,21 9:8 63:10 staying 56:15 **steam** 46:16 8:5,8,9 **steps** 30:1 31:2 stood 59:21 stopped 13:7 storm 15:21 16:11 20:19 38:20,21 39:10 40:17 41:25 42:3 55:23 57:16 58:20 straight 39:6 strange 38:21 40:19 stream 54:21 stuff 3:23 9:15 26:5

SU 3:19 5:18.24 subject 22:6 60:15 subsurface 24:10 suggestions 64:13 Suitland 25:21,23 26:3 27:12 sunk 23:20 43:6 support 53:16 supposed 56:8 sure 3:2 10:14 12:1,21 15:11 37:6 40:22 41:12,15 43:1,19,23 53:6 55:17 57:9 67:5 surface 30:20 31:17 **SURPIC** 16:16 17:8,9 surprised 40:11 **Survival** 2:14,16,18,20 swath 58:23 switch 23:25 26:22 system 18:11,14,17 26:3 27:14 28:5 34:14 Т

take 12:19 22:20 26:24 28:23 29:1.9 40:22 52:11 taken 10:25 12:4 26:21 28:18 30:2 31:2 36:10 40:6 takes 8:22 27:14 40:20 talk 11:17 22:25 25:22 25:23 31:22 37:1 41:15 65:16 66:25 talked 15:16 44:1 52:9 talking 24:8 30:4 34:17 39:14 42:22 43:11 53:15 55:14 tape 13:4 taped 2:9 **tapped** 55:9

tell 3:9 6:19 16:17 18:22 34:25 35:22 56:3 ten 42:17,24 test 25:3,5,6 Thank 22:11 thing 4:20 25:15 47:22 52:10 63:10 things 16:15 23:18 29:4 39:3 43:23 44:1 47:5 47:7 58:5 think 8:17 9:7 18:12,18 23:10 26:10 29:15

target 52:20

tasking 39:18

30:12 31:14 44:2 48:23 51:25 52:2 53:20 54:18,22 55:1,1 55:9 60:25 61:11,12

27:13

61:12 64:2,6,10,19 66:1,3,8 thinking 65:6 third 57:20,21 65:10,13 66:15 **Thirty** 8:24 Thirty-nine 51:16 thought 30:9 three 3:14 42:9 59:25 60:6,12,19 62:8 66:12 till 7:4 56:4 time 6:17 7:3,21 9:19 10:21 11:7 15:9 21:7 22:15 29:9 37:14 40:21 42:1 50:17 51:7 51:9,10,17 52:16,17 52:18 54:19 56:16 62:4,11,17 63:2 64:7 time-ish 8:12 timely 17:17 times 28:18,25 50:15 timing 41:8,13 title 2:25 3:1,3 told 20:13 45:15 60:22 top 10:6 31:21 37:8 43:3 56:7 totally 47:7 **TOTE** 1:17 2:16 10:9 22:18 37:20 62:16 touch 10:17 31:5 touches 27:12 **towing** 11:8 track 18:7 42:1 tracking 31:7,8 tracks 16:23 training 23:8 45:15 transcriber 2:13 transcript 1:24 transiting 15:13 transmission 27:6 transmitted 27:5.16 transponders 18:8 **Transportation** 1:1,25 treaty 33:8 tried 16:16 30:18 **try** 10:18 17:2 43:13 50:3 59:16 trying 15:20 36:12 38:2 41:10 43:10 49:16,18 **Tuesday** 1:9 2:4 13:5 **Turks** 20:5 21:19,21 22:2 turn 6:24 26:22 turnover 38:7,11 40:21 **twice** 46:7 two 6:24 23:24 47:3,4,7 54:14,22,23 58:20 60:8,9,11,18 61:13

65:6 66:11 **type** 4:20 10:19 11:9,13 19:23 24:3 32:22 38:17 49:11 55:3 59:6 **types** 29:11 **typical** 24:18

**U.S** 1:17,20 2:4,19 33:2 **Um** 65:3 **UMIB** 34:9,10,25 35:10 **UMIBs** 34:7,12 unable 32:21 45:13 uncertainty 48:17,20 48:21 49:8 uncorrelated 48:19 understand 35:20 **Unfortunately 32:21** unit 3:4,20,21,24 4:7,10 5:6,7,19 6:6 7:23 9:15 28:6 31:25 32:1 **United** 17:19 25:8 39:14 **units** 27:6 universal 51:17 52:17 **unknown** 45:16 unlocated 22:14 23:4 24:15,19 25:11 26:13 26:16,20 28:2 51:5 unregistered 36:1,5 **update** 57:5 **updates** 23:6 56:10 **Urgent** 34:10 **USCG** 1:11 use 31:9 43:11 52:20 uses 48:17 **USMCC** 25:7,14 27:5

varies 60:1 vessel 10:17 11:2 15:16 17:2,13 20:22 24:4 25:10 28:19 30:16 36:4 39:10 41:3,20 43:6 45:5,25 48:4,7 48:11,15 50:1 52:21 52:25 57:11 vessels 16:17,19 **VHF** 13:25,25 14:1,4 35:5 **VHF-FM** 34:13 **VHFDSC** 14:2 vicinity 35:22 view 16:21 17:25 18:1 39:17

V

36:7

usually 6:18

**utilize** 30:25

utilizing 52:11

visually 46:1 voice 19:2,3 35:14,15 volunteer 35:7 VTS 39:12

W wait 27:22 waiting 55:22 wall 21:6 want 4:21 5:4 13:12 22:6 26:9 40:5,19 43:8,17 59:17,19 63:20 64:22 wanted 10:17,18 11:4 11:12,15 45:18 Warning 56:11 wasn't 7:10 15:15 36:25 54:3 57:24 58:6 watch 6:21 7:11,19,22 8:15 9:3,8 36:25 39:17 54:1,6 55:18 57:2,17,18,23 58:1,13 58:17 59:24 60:11 61:18 62:2,4,5 65:7 66:15.23 watches 5:15 7:1 59:22 60:19 65:6 watchstander 5:21 watchstanders 64:21 65:1 water 10:25 12:4 23:22

65:1 water 10:25 12:4 23:22 23:25 28:19 33:15 41:21

Waterways 35:6,18 way 6:3 28:1 38:19 49:4 61:20 ways 23:24

we'll 29:14 33:18 67:2 we're 6:10 13:4 46:20 46:21 55:17 64:4,22 65:4,10,15 we've 5:14 43:14

weather 15:8,9,14,15 15:17,22,25 18:22 19:11 20:11,14 38:15 40:18 42:16 49:15,25 56:8,20

Webb 1:17 2:19,19 4:5 5:12 7:9,12 8:4,7,9 13:14,14,20,23 14:4 14:15,18 17:8 18:3,11 18:17,20 19:2 21:25 22:10,20,24 23:2,3,14 25:16,19,21 26:2,8,18 26:19 27:8 28:1,4,10 28:16,21 29:5,12,17 29:24 31:16,16,22

32:4,7 33:7,10 34:6,6

34:16 35:1,11,13,20 36:10,17,21,24 37:3,6 37:9,15,18,22 39:12 42:16,20,22,25 43:10 43:13,19 44:8,13,17 44:21 45:8,17 46:10 46:18,20,24 48:9,16 48:16 52:19,22 53:2,7 53:11,13,17,19,22 54:1,5,10,14,20,23,25 55:3,6,9 57:1,1,5,9,17 57:21,23,25 58:9 60:25 63:9,12,16,20 63:24 64:2 65:4,10.15 65:20,23 66:1,6,9,14 66:18,21,23 67:2,7 weird 21:25 went 9:9 16:20 41:4,20 49:21 52:6 weren't 34:2 58:7 West 6:3 32:23 white 48:20 **willing** 17:23 wind 56:13

winds 19:7 42:25 wise 45:19 58:2 witness 2:22 wondering 65:5 work 6:17,25 7:3 16:20 20:6 32:17 35:8 60:18

20:6 32:17 35:8 60:18 61:21 worked 7:9 works 61:21

would've 7:19 8:21 14:9

19:25 38:7 wouldn't 23:20 written 44:4

Y year 5:2 32:24 years 3:12,13,14,15 40:13

Ζ

**Zulu** 51:17 52:16 0 0530 6:18,20 0600 6:22,25 56:1 59:21

**0600** 6:22,25 56:1 59:2<sup>-1</sup> 60:4 61:18,19,24 **0700** 9:12 **0738** 55:13 **0739** 52:17

**1** 1:5 13:25

II.	
10,000 31:14 100 44:11,16 11 42:7 11:36 52:16 11:39 51:16 52:16 11:52 2:2 1152 2:4 12 3:13 7:9,11,17 41:19     41:21 58:16 65:18,18 12-foot 42:7,17,24 12-hour 6:25 57:2 12:07 12:23 12:31 13:6 13 1:10 2:3 130 40:16 44:7 130212 13:2 130212 13:3 130s 55:8 1342 67:8 13th 13:5 144s 62:13 15 10:25 150 16:18 41:24 160 58:22 18 22:15 1800 6:25 8:15 59:22 61:18,24 1830 9:3 1845 9:4 1900 9:3	5 5:30 38:7 50 14:5 15:19 19:7  6 6 38:7 6:00 8:21 6th 61:8  7 7 2:5 3:4 13:12 7:36 51:14,15  8 9
1st 6:16 9:12 10:11 60:2 60:3,17  2 2 14:6 20 19:7 200 41:18 2015 1:5,10 2:3 13:5 21 34:14 24/7 20:7 25 14:5 2nd 60:17  3 3 14:8 34:17 66:19,22 30 7:18,20 8:23 30-foot 19:7 300-foot 52:21,24 53:1 33 11:10 35 3:12 36 34:21  4 4 24:4 34:17 66:22 406 23:4 45 8:23,24 40:21	

# CERTIFICATE

El Faro Incident
Accident No. DCA16MM001
Interview of
Jacksonville, FL

DATE: 10-13-15

I hereby certify that the attached transcription of page 1 to 77 inclusive are to the best of my professional ability a true, accurate, and complete record of the above referenced proceedings as contained on the provided audio recording; further that I am neither counsel for, nor related to, nor employed by any of the parties to this action in which this proceeding has taken place; and further that I am not financially nor otherwise interested in the outcome of the action.



#### **NEAL R. GROSS**